

**REMEDATION STATUS REPORT - THIRD 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. Starting during the current reporting period, the aboveground treatment of contaminated vadose zone soils excavated at the Site has also been conducted. 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 two ion exchange vessels (for arsenic treatment) in series prior to being discharged to 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**

During this reporting period, 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.

During this reporting period, 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 off-line periods in early July, August, and September 2015, as well as at the end of the reporting period, 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 July 9, July 15, July 21, July 29, August 17, September 9, September 22, and September 25, 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 July 9 and 13, 2015 to conduct routine system maintenance activities. Performance and compliance water samples from the GWETS were collected during the reporting



period on July 9, August 17, and September 3, 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 October 6, 2015. 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 from April 24, 2015 through the end of 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 3, 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 three vertical wells in the northeastern area (VEW-32, VEW-33, and VEW-34), 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 reporting period was approximately 2,392 pounds and approximately 2,937,878 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 this 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 during this reporting period was approximately 711,274 gallons and approximately 73,420,694 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 1.1 pounds (Table 2c) during the third quarter 2015, and approximately 9,937 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 36.3 gallons (249 pounds) of LNAPL was recovered from the Site during the reporting period (Tables 8a through 8g).

In addition, on June 30, 2015, a workplan for pilot testing LNAPL remedial technologies was also submitted as part of the northeastern LNAPL plume investigation. The findings and recommendations from that pending pilot test will also result in LNAPL mitigation activities applicable to the rest of the Site.

#### **3.4 Aboveground Soil Treatment**

A total of 19 new biopiles were brought online during the current reporting period with two of these piles being taken off-line by the end of the reporting period 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, during the third quarter 2015, influent vapor-phase VOC concentrations from the horizontal and vertical wells remained relatively stable with wells HW-7, and VEW-35 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). Well VEW-34 was additionally taken off-line during mid-August 2015 on the same basis.

Ex-situ soil biopile VOC concentrations exhibited an overall increasing trend during the reporting period with more dilution air generally being required to balance the system. 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 FOURTH QUARTER 2015 ACTIVITIES

During the fourth quarter 2015, 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. The following OM&M activities are planned to be performed during the fourth quarter 2015:

- 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;
- Evaluate potential re-use of GWETS discharge water on site;
- 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.

The remediation activities and progress for the fourth quarter 2015 will be described in the *Fourth Quarter 2015 Remediation Progress Report* to be submitted by February 15, 2016.

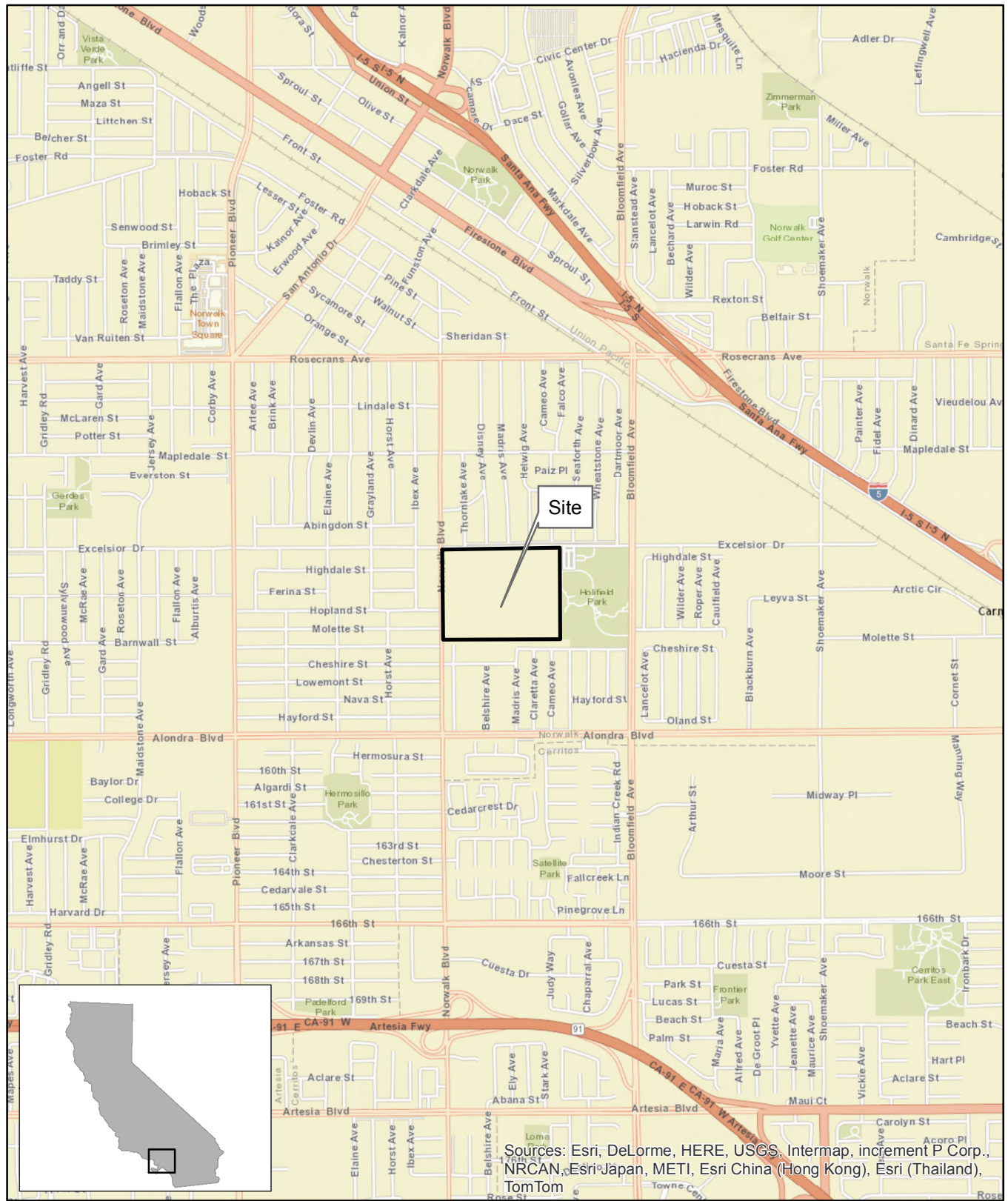
## 6.0 LIMITATIONS

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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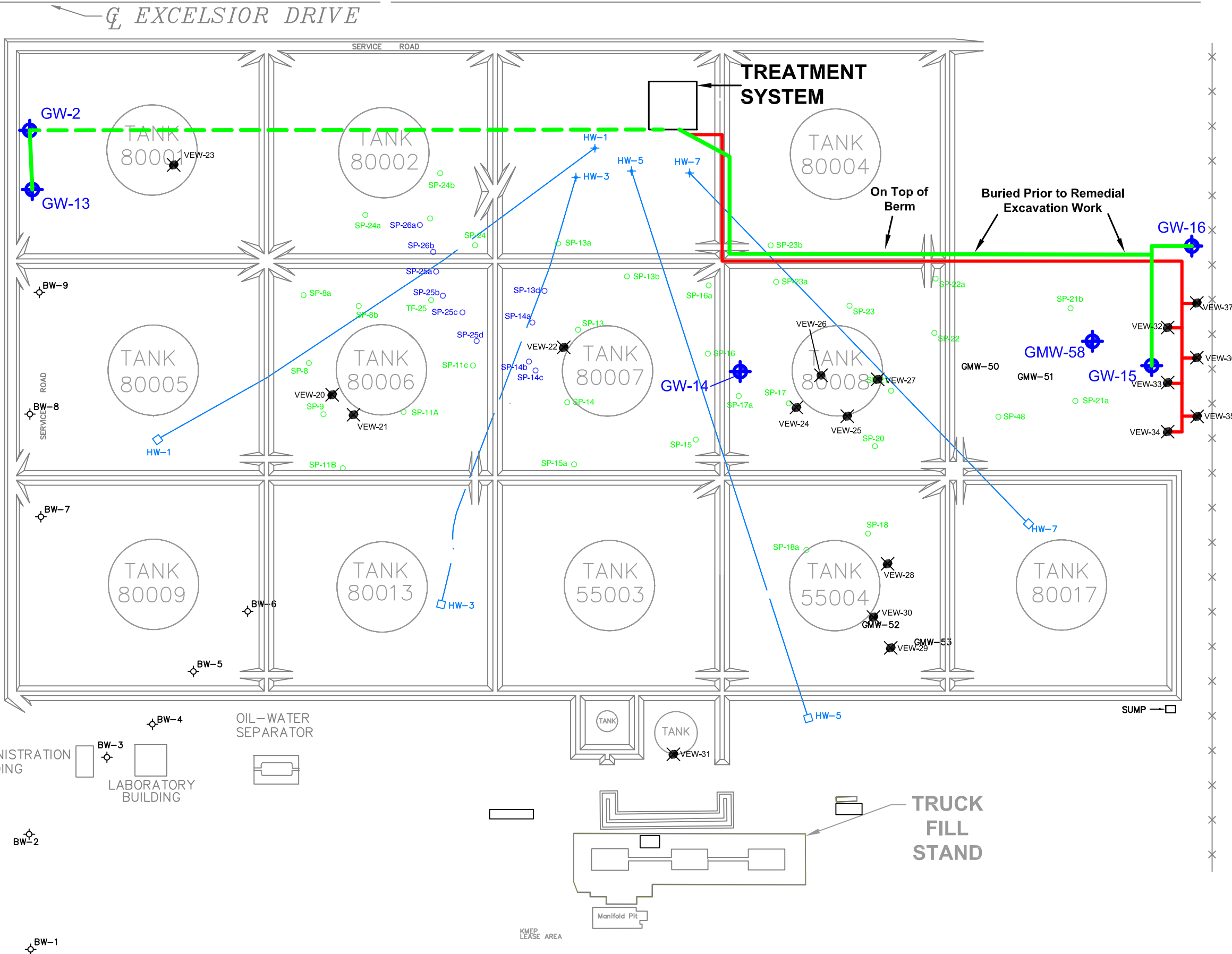
FIGURE  
1

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

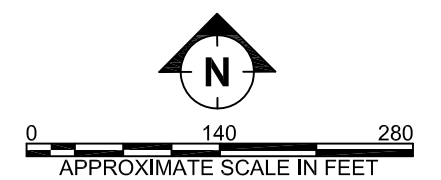
**DEFENSE FUEL SUPPORT POINT  
NORWALK**  
15306 NORWALK BOULEVARD  
NORWALK, CALIFORNIA

**SITE LOCATION MAP**

GIS\_MAPPING (\\SUPER\_COMPY) (O:)\\DLA-Norwalk\CAD\Remediation System Layout (2007 ver) updated\_08052015.dwg



- 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.

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 Summary of Operations - July**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
07/01/15	Technician	1	0	2,818,360	1,207,823	6,859,027	8,066,850	6,898,329	72,716,868	--	9,936
07/02/15	*		2,520	2,821,372	1,208,294	6,861,307	8,069,602	6,903,861	72,722,708	--	9,936
07/03/15	Technician		5,223	2,824,604	1,208,800	6,863,754	8,072,554	6,909,797	72,728,974	--	9,936
07/04/15	*		6,221	2,825,744	1,209,903	6,864,699	8,074,601	6,911,933	72,732,232	--	9,936
07/05/15	*		7,218	2,826,883	1,211,006	6,865,643	8,076,649	6,914,070	72,735,491	--	9,936
07/06/15	*		8,215	2,828,023	1,212,108	6,866,588	8,078,696	6,916,207	72,738,749	--	9,936
07/07/15	*		9,212	2,829,163	1,213,211	6,867,532	8,080,743	6,918,344	72,742,008	--	9,936
07/08/15	*		10,210	2,830,302	1,214,314	6,868,476	8,082,791	6,920,481	72,745,266	--	9,936
07/09/15	Technician	2,3	11,301	2,831,549	1,215,520	6,869,509	8,085,030	6,922,818	72,748,830	180	9,936
07/10/15	Off line		11,301	2,831,549	1,215,520	6,869,509	8,085,030	6,922,818	72,748,830	--	9,936
07/11/15	Off line		11,301	2,831,549	1,215,520	6,869,509	8,085,030	6,922,818	72,748,830	--	9,936
07/12/15	Off line		11,301	2,831,549	1,215,520	6,869,509	8,085,030	6,922,818	72,748,830	--	9,936
07/13/15	Technician	4	11,301	2,831,549	1,215,520	6,869,509	8,085,030	6,922,818	72,748,830	--	9,936
07/14/15	*		14,396	2,835,058	1,219,197	6,872,393	8,091,590	6,929,423	72,760,513	--	9,936
07/15/15	Technician		17,555	2,838,642	1,222,950	6,875,336	8,098,286	6,936,166	72,772,440	--	9,936
07/16/15	*		20,740	2,842,331	1,226,501	6,878,216	8,104,717	6,943,039	72,782,946	--	9,936
07/17/15	*		23,924	2,846,020	1,230,052	6,881,096	8,111,149	6,949,913	72,793,453	--	9,936
07/18/15	*		27,109	2,849,709	1,233,604	6,883,977	8,117,580	6,956,787	72,803,959	--	9,936
07/19/15	*		30,293	2,853,399	1,237,155	6,886,857	8,124,011	6,963,661	72,814,465	--	9,936
07/20/15	*		33,478	2,857,088	1,240,706	6,889,737	8,130,443	6,970,535	72,824,972	--	9,936
07/21/15	Technician		36,154	2,860,188	1,243,690	6,892,157	8,135,847	6,976,311	72,833,800	--	9,936
07/22/15	*		39,358	2,863,890	1,244,828	6,894,225	8,139,053	6,983,217	72,839,988	--	9,936
07/23/15	*		42,562	2,867,591	1,245,966	6,896,293	8,142,258	6,990,122	72,846,176	--	9,936
07/24/15	*		45,766	2,871,293	1,247,103	6,898,361	8,145,464	6,997,028	72,852,365	--	9,936
07/25/15	*		48,970	2,874,995	1,248,241	6,900,429	8,148,670	7,003,934	72,858,553	--	9,936
07/26/15	*		52,174	2,878,696	1,249,379	6,902,497	8,151,876	7,010,839	72,864,741	--	9,936
07/27/15	*		55,378	2,882,398	1,250,517	6,904,565	8,155,081	7,017,745	72,870,929	--	9,936
07/28/15	Technician	5	58,916	2,886,485	1,251,773	6,906,848	8,158,621	7,025,370	72,877,762	--	9,936
07/29/15	*		62,109	2,890,140	1,251,773	6,906,848	8,158,621	7,032,218	72,885,116	--	9,936
07/30/15	*		65,302	2,893,795	1,251,773	6,906,848	8,158,621	7,039,065	72,892,470	--	9,936
07/31/15	Technician	6	68,306	2,897,234	1,251,773	6,906,848	8,158,621	7,045,509	72,899,390	--	9,936

**Cumulative Groundwater Discharged by the GWETS to Date (gallons)**

Period	July	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	189,969	342,827	528,279	189,969	--	1,061,075	72,899,390

**Cumulative Mass DRO Removed by the GWETS<sup>A</sup> (lb)**

Period	July	Quarter 3 to Date	April 1996 to Date
Mass	0.3	0.3	9,936.2

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

**Legend / Notes:**

- 1 = Installed new GW-2 totalizer.
- 2 = Collected monthly process, intermediate and effluent water samples for laboratory analysis.
- 3 = GWETS manually shut down for maintenance.
- 4 = GWETS restarted.
- 5 = GW-15 and GW-16 manually shutdown for maintenance.
- 6 = Restarted GW-15 and GW-16.

- GWETS = Groundwater extraction and treatment system
- lb = Pounds
- µg/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: 07/09/15 (laboratory report attached).
- = Not applicable
- \* = Operational values interpolated from chart recorder data or previous monitoring event.

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
08/01/15	*		71,432	2,900,851	1,254,482	6,910,653	8,165,135	7,052,252	72,910,578	--	9,936
08/02/15	*		74,559	2,904,468	1,257,192	6,914,457	8,171,649	7,058,996	72,921,766	--	9,936
08/03/15	Technician		78,000	2,908,449	1,260,174	6,918,645	8,178,819	7,066,418	72,934,080	--	9,936
08/04/15	*		81,192	2,912,154	1,260,174	6,922,689	8,182,863	7,073,314	72,942,260	--	9,936
08/05/15	*		84,384	2,915,858	1,260,174	6,926,734	8,186,908	7,080,211	72,950,439	--	9,936
08/06/15	Technician		87,221	2,919,151	1,260,174	6,930,329	8,190,503	7,086,341	72,957,710	--	9,936
08/07/15	*		89,547	2,921,805	1,260,174	6,933,254	8,193,428	7,091,321	72,964,289	--	9,936
08/08/15	*		91,872	2,924,460	1,260,174	6,936,178	8,196,352	7,096,301	72,970,867	--	9,936
08/09/15	*		94,198	2,927,114	1,260,174	6,939,103	8,199,277	7,101,281	72,977,446	--	9,936
08/10/15	Technician		96,652	2,929,916	1,260,174	6,942,190	8,202,364	7,106,537	72,984,390	--	9,936
08/11/15	*		99,791	2,933,372	1,260,174	6,946,067	8,206,241	7,113,132	72,992,452	--	9,936
08/12/15	*		102,930	2,936,828	1,260,174	6,949,944	8,210,118	7,119,726	73,000,515	--	9,936
08/13/15	*		106,068	2,940,283	1,260,174	6,953,821	8,213,995	7,126,321	73,008,577	--	9,936
08/14/15	Technician		109,523	2,944,087	1,260,174	6,958,088	8,218,262	7,133,579	73,017,451	--	9,936
08/15/15	*		112,691	2,947,567	1,260,174	6,961,949	8,222,123	7,140,226	73,025,828	--	9,936
08/16/15	*		115,858	2,951,046	1,260,174	6,965,810	8,225,984	7,146,873	73,034,205	--	9,936
08/17/15	Technician	1,2,3	118,927	2,954,417	1,260,174	6,969,550	8,229,724	7,153,313	73,042,320	430	9,936
08/18/15	*		122,100	2,957,873	1,261,070	6,973,420	8,234,490	7,159,942	73,051,195	--	9,936
08/19/15	*		125,273	2,961,330	1,261,966	6,977,289	8,239,256	7,166,572	73,060,070	--	9,937
08/20/15	Technician		128,314	2,964,642	1,262,825	6,980,998	8,243,823	7,172,925	73,068,575	--	9,937
08/21/15	*		131,525	2,968,140	1,265,978	6,984,211	8,250,189	7,179,634	73,078,307	--	9,937
08/22/15	*		134,736	2,971,638	1,269,131	6,987,423	8,256,555	7,186,343	73,088,039	--	9,937
08/23/15	*		137,947	2,975,135	1,272,285	6,990,636	8,262,921	7,193,052	73,097,771	--	9,937
08/24/15	Technician		140,690	2,978,123	1,274,978	6,993,380	8,268,358	7,198,782	73,106,084	--	9,937
08/25/15	*		141,670	2,980,041	1,276,067	6,995,022	8,271,089	7,201,679	73,110,570	--	9,937
08/26/15	*		142,649	2,981,959	1,277,155	6,996,664	8,273,819	7,204,577	73,115,057	--	9,937
08/27/15	*		143,629	2,983,876	1,278,244	6,998,306	8,276,550	7,207,474	73,119,543	--	9,937
08/28/15	Technician		144,700	2,985,974	1,279,435	7,000,102	8,279,537	7,210,643	73,124,450	--	9,937
08/29/15	*		145,497	2,989,480	1,281,487	7,003,030	8,284,517	7,214,947	73,131,384	--	9,937
08/30/15	*		146,295	2,992,987	1,283,538	7,005,958	8,289,497	7,219,250	73,138,318	--	9,937
08/31/15	Technician		147,200	2,996,968	1,285,868	7,009,283	8,295,151	7,224,137	73,146,191	--	9,937

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	August	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	246,801	342,827	528,279	436,770	--	1,307,876	73,146,191

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	0.6	0.9	9,936.8

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

**Legend / Notes:**

- 1 = Collected monthly influent and intermediate water samples for laboratory analysis.
- 2 = Collected monthly effluent water samples for laboratory analysis.
- 3 = Collected quarterly 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: 07/09/15 and 08/17/15 (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 Summary of Operations - September**

DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
09/01/15	*		147,750	2,999,467	1,288,343	7,011,631	8,299,973	7,227,186	73,152,171	--	9,937
09/02/15	*		148,300	3,001,966	1,290,817	7,013,978	8,304,795	7,230,235	73,158,151	--	9,937
09/03/15	Technician	1	148,736	3,003,944	1,292,776	7,015,837	8,308,613	7,232,649	73,162,885	86	9,937
09/04/15	*		153,513	3,010,245	1,295,718	7,018,899	8,314,617	7,243,727	73,175,896	--	9,937
09/05/15	*		158,290	3,016,547	1,298,660	7,021,961	8,320,621	7,254,806	73,188,907	--	9,937
09/06/15	*		163,067	3,022,848	1,301,602	7,025,023	8,326,625	7,265,884	73,201,918	--	9,937
09/07/15	*		167,844	3,029,149	1,304,544	7,028,085	8,332,629	7,276,962	73,214,929	--	9,937
09/08/15	Technician		173,550	3,036,676	1,308,058	7,031,743	8,339,801	7,290,195	73,230,470	--	9,937
09/09/15	*		177,513	3,043,335	1,311,153	7,034,797	8,345,950	7,300,817	73,242,509	--	9,937
09/10/15	*		181,476	3,049,993	1,314,247	7,037,852	8,352,099	7,311,438	73,254,549	--	9,937
09/11/15	Technician		184,613	3,055,265	1,316,697	7,040,270	8,356,967	7,319,847	73,264,080	--	9,937
09/12/15	*		187,855	3,058,088	1,318,908	7,042,489	8,361,397	7,325,912	73,271,962	--	9,937
09/13/15	*		191,098	3,060,911	1,321,119	7,044,708	8,365,827	7,331,977	73,279,843	--	9,937
09/14/15	Technician		194,959	3,064,273	1,323,753	7,047,350	8,371,103	7,339,201	73,289,230	--	9,937
09/15/15	*		198,150	3,067,003	1,326,008	7,049,429	8,375,438	7,345,122	73,297,280	--	9,937
09/16/15	*		201,341	3,069,733	1,328,264	7,051,509	8,379,772	7,351,043	73,305,329	--	9,937
09/17/15	Technician		203,878	3,071,904	1,330,057	7,053,162	8,383,219	7,355,751	73,311,730	--	9,937
09/18/15	*		207,259	3,074,719	1,332,532	7,055,415	8,387,947	7,361,947	73,320,477	--	9,937
09/19/15	*		210,640	3,077,535	1,335,007	7,057,667	8,392,674	7,368,144	73,329,223	--	9,937
09/20/15	*		214,021	3,080,350	1,337,481	7,059,920	8,397,402	7,374,340	73,337,970	--	9,937
09/21/15	*		217,402	3,083,166	1,339,956	7,062,173	8,402,129	7,380,537	73,346,717	--	9,937
09/22/15	Technician	2	221,617	3,086,675	1,343,041	7,064,981	8,408,022	7,388,261	73,357,620	--	9,937
09/23/15	*		224,730	3,089,087	1,345,199	7,067,081	8,412,280	7,393,786	73,365,107	--	9,937
09/24/15	*		227,844	3,091,499	1,347,358	7,069,181	8,416,539	7,399,312	73,372,594	--	9,937
09/25/15	*		230,957	3,093,911	1,349,516	7,071,281	8,420,797	7,404,837	73,380,081	--	9,937
09/26/15	*		234,070	3,096,323	1,351,674	7,073,381	8,425,056	7,410,362	73,387,569	--	9,937
09/27/15	*		237,184	3,098,735	1,353,833	7,075,481	8,429,314	7,415,887	73,395,056	--	9,937
09/28/15	*		240,297	3,101,147	1,355,991	7,077,581	8,433,572	7,421,413	73,402,543	--	9,937
09/29/15	Technician		243,248	3,103,433	1,358,037	7,079,572	8,437,609	7,426,650	73,409,640	--	9,937
09/30/15	*		247,566	3,106,812	1,360,494	7,082,571	8,443,066	7,434,348	73,420,694	--	9,937

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	September	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	274,503	342,827	528,279	711,274	--	1,582,379	73,420,694

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	0.2	1.1	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 influent, intermediate, and effluent water samples for laboratory analysis.
- 2 = Cumulative groundwater discharged includes approximately 600 gallons of stormwater that was collected during a recent rain event and processed through the GWETS.

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: 08/17/15 and 09/03/15 (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 - July**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution (ppmv)	Field Process Concentration with Dilution <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
07/01/15	Technician	1,2	29,666	424	2	104	--	127	0	2,935,490
07/02/15	*		29,690	424	--	--	--	--	--	2,935,495
07/03/15	Technician	1,2	29,714	368	2	102	--	132	0.2	2,935,500
07/04/15	*		29,738	368	--	--	--	--	--	2,935,504
07/05/15	Technician		29,762	368	2	86	--	206	0	2,935,508
07/06/15	Technician	1,3	29,786	424	2	94	--	249	0	2,935,513
07/07/15	*		29,810	424	--	--	--	--	--	2,935,518
07/08/15	Technician		29,833	414	2	106	--	138	1.0	2,935,523
07/09/15	Technician	1,4	29,858	418	2	108	150	162	4.8	2,935,546
07/10/15	Technician		29,882	418	2	106	--	127	0.1	2,935,568
07/11/15	*		29,906	418	--	--	--	--	--	2,935,591
07/12/15	*		29,930	418	--	--	--	--	--	2,935,613
07/13/15	Technician	1,2	29,954	378	2	114	--	156	1.2	2,935,634
07/14/15	*		29,978	378	--	--	--	--	--	2,935,654
07/15/15	Technician	5	30,002	387	2	97	170	147	1.5	2,935,678
07/16/15	Technician	1,2,6	30,026	399	2	94	--	147	0.4	2,935,704
07/17/15	*		30,050	399	--	--	--	--	--	2,935,729
07/18/15	Technician		30,074	399	2	90	--	166	0	2,935,754
07/19/15	*		30,098	399	--	--	--	--	--	2,935,779
07/20/15	Technician	1	30,111	424	2	108	--	252	0.4	2,935,806
07/21/15	Technician	1,5	30,136	410	3	98	160	259	0.6	2,935,829
07/22/15	Technician	1	30,160	402	3	108	--	134	2.2	2,935,852
07/23/15	*		30,184	402	--	--	--	--	--	2,935,875
07/24/15	Technician		30,208	404	3	110	--	238	1.8	2,935,899
07/25/15	*		30,232	404	--	--	--	--	--	2,935,922
07/26/15	*		30,256	404	--	--	--	--	--	2,935,945
07/27/15	*		30,280	404	--	--	--	--	--	2,935,968
07/28/15	Technician		30,304	412	2	110	--	132	1.4	2,935,992
07/29/15	Technician	1,5	30,328	400	2	100	170	129	0.8	2,936,018
07/30/15	*		30,352	400	--	--	--	--	--	2,936,043
07/31/15	Technician	1,2	30,376	401	2	114	--	94	3.0	2,936,069

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	583	583	2,936,069

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

**Legend / Notes:**

- 1 = Measured individual soil biopile vapor concentrations with an OVA.
- 2 = Select soil biopiles brought online and/or taken off-line.
- 3 = VES temporarily shut down for maintenance.
- 4 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 5 = Collected additional influent sample for laboratory analysis as part of field instrument correlation study.
- 6 = Measured individual well vapor concentrations with an OVA.

Vapor extraction wells on line this month: VEW-32, VEW-33, VEW-34  
 Soil biopiles on line this month: 80002 D-SP-01 and E-SP-01, 80004-A-SP-01 through G-SP-01, and 80006 B-SP-01 through E-SP-01

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: 07/09/15 (laboratory report attached).  
 -- = Not applicable or not measured  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.



**TABLE 3b**  
**Soil Vapor Extraction System Summary of Operations - August**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution (ppmv)	Field Process Concentration with Dilution <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
08/01/15	*		30,400	401	--	--	--	--	--	2,936,094
08/02/15	*		30,424	401	--	--	--	--	--	2,936,120
08/03/15	Technician	1	30,448	421	3	115	--	192	5.2	2,936,147
08/04/15	Technician	2	30,465	421	3	--	--	--	--	2,936,166
08/05/15	Off line		30,465	NA	--	--	--	--	--	2,936,166
08/06/15	Technician	3	30,474	437	2	110	--	200	0	2,936,176
08/07/15	*		30,498	437	--	--	--	--	--	2,936,204
08/08/15	*		30,522	437	--	--	--	--	--	2,936,232
08/09/15	*		30,546	437	--	--	--	--	--	2,936,260
08/10/15	Technician	1,4,5	30,570	442	2	110	--	141	0.7	2,936,288
08/11/15	*		30,594	442	--	--	--	--	--	2,936,316
08/12/15	Technician	1,6	30,618	427	2	114	--	126	0.6	2,936,344
08/13/15	*		30,642	427	--	--	--	--	--	2,936,371
08/14/15	Technician	1,6	30,666	445	2	122	--	153	0.5	2,936,399
08/15/15	*		30,690	445	--	--	--	--	--	2,936,428
08/16/15	Technician		30,714	445	2	110	--	170	0.2	2,936,456
08/17/15	Technician	6,7	30,738	427	2	108	130	135	0.7	2,936,477
08/18/15	Technician		30,760	427	2	104	--	176	0.2	2,936,498
08/19/15	Technician	8	30,784	428	2	102	--	136	1.4	2,936,520
08/20/15	Technician	1,6	30,810	429	2	108	--	148	1.2	2,936,541
08/21/15	Technician		30,834	429	2	94	--	132	0.9	2,936,562
08/22/15	*		30,858	429	--	--	--	--	--	2,936,583
08/23/15	Technician		30,882	429	2	106	--	131	1.7	2,936,604
08/24/15	Technician		30,906	432	2	100	--	187	1.7	2,936,626
08/25/15	*		30,930	432	--	--	--	--	--	2,936,647
08/26/15	*		30,954	432	--	--	--	--	--	2,936,669
08/27/15	Technician		30,930	432	2	88	--	163	0.2	2,936,690
08/28/15	Technician	1	31,002	426	2	118	--	130	2.1	2,936,711
08/29/15	*		31,026	426	--	--	--	--	--	2,936,732
08/30/15	Technician		31,050	426	2	107	--	160	3.0	2,936,753
08/31/15	Technician	1,6	31,074	448	2	104	--	187	2.5	2,936,775

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	706	1,290	2,936,775

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

**Legend / Notes:**

- 1 = Measured individual well and/or soil biopile vapor concentrations with an OVA.
- 2 = VES manually shutdown in advance of scheduled carbon change out work.
- 3 = VES restarted following completion of carbon change out work.
- 4 = Collected quarterly individual well samples for laboratory analysis.
- 5 = Opened vapor extraction wells HW-1, HW-3 and HW-5 based on field OVA readings (Table 6).
- 6 = Select soil biopiles brought online and/or taken off-line.
- 7 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 8 = Closed vapor extraction well VEW-34 based on low to non-detectable lab results (Table 7).

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: 07/09/15 and 08/17/15 (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, VEW-34, HW-1, HW-3, HW-5  
 Soil biopiles on line this month: Powerine C-SP-01 through H-SP-01, 80004-A-SP-01 through G-SP-01, and 80006 C-SP-01 through F-SP-01

**TABLE 3c**  
**Soil Vapor Extraction System Summary of Operations - September**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution (ppmv)	Field Process Concentration with Dilution <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
09/01/15	*		31,098	448	--	--	--	--	--	2,936,797
09/02/15	*		31,122	448	--	--	--	--	--	2,936,820
09/03/15	Technician	1,2	31,142	591	1	104	--	200	0	2,936,849
09/04/15	Technician	3	31,166	590	1	104	--	260	0	2,936,878
09/05/15	*		31,190	590	--	--	--	--	--	2,936,907
09/06/15	Technician		31,213	590	1	112	--	260	0.1	2,936,936
09/07/15	*		31,237	590	--	--	--	--	--	2,936,965
09/08/15	Technician	2,3	31,262	581	1	120	--	214	0.3	2,936,994
09/09/15	Technician	4	31,286	579	1	109	190	202	0.3	2,937,034
09/10/15	*		31,310	579	--	--	--	--	--	2,937,073
09/11/15	Technician	2,3	31,334	577	1	112	--	214	0.3	2,937,113
09/12/15	*		31,358	577	--	--	--	--	--	2,937,152
09/13/15	Technician		31,382	577	1	109	--	279	0.2	2,937,192
09/14/15	Technician	2,3	31,406	584	1	104	--	245	0.1	2,937,231
09/15/15	*		31,430	584	--	--	--	--	--	2,937,271
09/16/15	Technician	2,3	31,454	592	1	102	--	225	0.1	2,937,312
09/17/15	*		31,478	592	--	--	--	--	--	2,937,352
09/18/15	Technician	2,3	31,493	595	1	98	--	297	0.1	2,937,393
09/19/15	Technician		31,517	602	1	82	--	237	0	2,937,434
09/20/15	Technician		31,541	602	1	90	--	280	0	2,937,475
09/21/15	*		31,565	602	--	--	--	--	--	2,937,516
09/22/15	Technician	3,5	31,589	590	1	106	150	225	0	2,937,548
09/23/15	Technician	2,3	31,613	600	1	88	--	192	0	2,937,581
09/24/15	Technician		31,634	600	1	98	--	284	1.2	2,937,613
09/25/15	Technician	3,5	31,661	586	1	110	220	258	2.7	2,937,660
09/26/15	*		31,685	586	--	--	--	--	--	2,937,707
09/27/15	Technician		31,709	586	1	100	--	545	1.0	2,937,754
09/28/15	Technician		31,733	588	1	110	--	490	5.3	2,937,801
09/29/15	Technician	2,3	31,756	596	1	94	--	332	6.2	2,937,848
09/30/15	Technician	6	31,771	596	1	94	--	332	6.2	2,937,878

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	1,102	2,392	2,937,878

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

**Legend / Notes:**

- 1 = VES temporarily shut down to conduct carbon change out work.
- 2 = Select soil biopiles brought online and/or taken off-line.
- 3 = Measured individual well and/or soil biopile vapor concentrations with an OVA.
- 4 = Collected monthly influent, after GAC-1, and effluent samples for laboratory analysis.
- 5 = Collected additional influent, after GAC-1, after GAC-2 and/or effluent samples for laboratory analysis as part of field instrument correlation study.
- 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 C-SP-01 through J-SP-01, 80002-F-SP-01 through I-SP-01, 80004 B-SP-01 through G-SP-01, and 80006 C-SP-01, D-SP-01 and G-SP-01

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: 08/17/15, 09/09/15, 09/22/15 and 09/25/15 (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	<b>6.1</b>	<b>25</b>	<b>7.0</b>	<b>25</b>	<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	<b>7.3</b>	<b>30</b>	<b>8.4</b>	<b>30</b>	<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	<b>140</b>	<b>580</b>	<b>160</b>	<b>580</b>	<b>0.63</b>	<b>2.0</b>	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<b>0.23</b>	<b>1.0</b>	<b>0.23</b>	<b>1.0</b>	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	<b>83</b>	<b>340</b>	<b>97</b>	<b>340</b>	<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	<b>32</b>	<b>130</b>	<b>37</b>	<b>130</b>	<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	<b>150</b>	<b>600</b>	<b>170</b>	<b>600</b>	<0.16	<0.50	<b>0.15</b>	<b>0.58</b>	<0.12	<0.50	<b>0.67</b>	<b>2.9</b>	<b>0.71</b>	<b>3.1</b>	<b>1.38</b>	<b>6.0</b>	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	<b>170</b>	<b>700</b>	<b>200</b>	<b>700</b>	<0.16	<0.50	<b>0.53</b>	<b>2.0</b>	<b>0.18</b>	<b>0.78</b>	<b>0.99</b>	<b>4.3</b>	<b>1.5</b>	<b>6.3</b>	<b>2.49</b>	<b>10.6</b>	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	<b>160</b>	<b>640</b>	<b>180</b>	<b>640</b>	<0.16	<0.50	<b>0.25</b>	<b>0.94</b>	<0.12	<0.50	<b>0.71</b>	<b>3.1</b>	<b>0.62</b>	<b>2.7</b>	<b>1.33</b>	<b>5.8</b>	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	<b>170</b>	<b>710</b>	<b>200</b>	<b>710</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>0.32</b>	<b>1.4</b>	<b>0.25</b>	<b>1.1</b>	<b>0.57</b>	<b>2.5</b>	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	<b>130</b>	<b>550</b>	<b>160</b>	<b>550</b>	<b>0.75</b>	<b>2.4</b>	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<b>0.28</b>	<b>1.2</b>	<b>0.28</b>	<b>1.2</b>	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	<b>190</b>	<b>760</b>	<b>220</b>	<b>760</b>	<b>0.30</b>	<b>0.95</b>	<b>0.74</b>	<b>2.8</b>	<b>0.76</b>	<b>3.3</b>	<b>0.69</b>	<b>3.0</b>	<b>2.5</b>	<b>11</b>	<b>3.19</b>	<b>14</b>	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	<b>150</b>	<b>600</b>	<b>170</b>	<b>600</b>	<b>0.27</b>	<b>0.85</b>	<b>0.37</b>	<b>1.4</b>	<0.12	<0.50	<b>0.71</b>	<b>3.1</b>	<b>0.58</b>	<b>2.5</b>	<b>1.29</b>	<b>5.6</b>	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	<b>220</b>	<b>890</b>	<b>250</b>	<b>890</b>	<b>0.41</b>	<b>1.3</b>	<b>0.64</b>	<b>2.4</b>	<b>0.17</b>	<b>0.75</b>	<b>0.74</b>	<b>3.2</b>	<b>0.85</b>	<b>3.7</b>	<b>1.59</b>	<b>6.9</b>	<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

Legend and notes on next page.

**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)

**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	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	--	--	--	--

**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 - 3rd 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
07/03/15	33.25	33.26	0.01	0	28.0	32.7	115.9	793.4
07/09/15	33.25	33.27	0.02	0	36.0	42.1	116.3	795.7
07/20/15	--	33.54	--	0	48.0	56.1	116.7	798.7
07/29/15	32.94	32.96	0.02	0	28.0	32.7	117.0	800.4
08/06/15	--	33.46	--	0	28.0	32.7	117.2	802.2
08/14/15	--	33.52	--	0	28.0	32.7	117.5	803.9
09/09/15	--	33.54	--	0	28.0	32.7	117.7	805.7
09/17/15	--	33.71	--	0	24.0	28.1	118.0	807.2
09/23/15	--	33.75	--	0	28.0	32.7	118.2	808.9

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>276</b>	<b>322.6</b>	<b>2.5</b>	<b>17.2</b>
<b>Cumulative Beginning January 2014 <sup>A</sup>:</b>	<b>112.0</b>	<b>680</b>	<b>794.9</b>	<b>118.2</b>	<b>808.9</b>

**Legend / Notes:**

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since 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 - 3rd Quarter 2015**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

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

<b>Cumulative for the Reporting Period:</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning January 2014<sup>A</sup>:</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

**Legend / Notes:**

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since 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 - 3rd 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
07/29/15	--	33.21	--	0.0	20	23.4	21.4	146.7

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>20</b>	<b>23.4</b>	<b>0.2</b>	<b>1.2</b>
<b>Cumulative Beginning January 2014 <sup>A</sup>:</b>	<b>5.0</b>	<b>1,800</b>	<b>2,104.0</b>	<b>21.4</b>	<b>146.7</b>

**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 - 3rd Quarter 2015**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

<b>Date</b>	<b>Depth to LNAPL (feet btc)</b>	<b>Depth to Water (feet btc)</b>	<b>Measured LNAPL Thickness (feet)</b>	<b>LNAPL Removed with Socks (ounces)</b>	<b>LNAPL Removed with Socks (fluid ounces)</b>	<b>Cumulative LNAPL Removed with Socks<sup>A</sup> (gallons)</b>	<b>Cumulative LNAPL Removed with Socks<sup>A</sup> (pounds)</b>
01/07/15	Well Abandoned for Soil Excavation						
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning January 2014<sup>A</sup>:</b>				<b>612.8</b>	<b>716.3</b>	<b>5.6</b>	<b>38.3</b>

**Legend / Notes:**

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since 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 - 3rd 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
07/03/15	30.28	32.18	1.90	2.5	52	60.8	109.6	749.7
07/09/15	30.31	32.23	1.92	2.5	60	70.1	112.6	770.6
07/20/15	30.35	32.28	1.93	2.0	64	74.8	115.2	788.2
07/29/15	30.22	33.02	2.80	2.0	0	0.0	117.2	801.9
08/06/15	30.22	33.06	2.84	3.0	0	0.0	120.2	822.5
08/14/15	30.30	33.11	2.81	3.0	0	0.0	123.2	843.0
09/09/15	30.34	33.23	2.89	2.5	0	0.0	125.7	860.1
09/17/15	30.43	33.31	2.88	2.5	0	0.0	128.2	877.2
09/23/15	30.41	33.24	2.83	2.5	0	0.0	130.7	894.3

<b>Cumulative for the Reporting Period:</b>	<b>22.5</b>	<b>176</b>	<b>205.7</b>	<b>24.1</b>	<b>165.0</b>
<b>Cumulative Beginning January 2014 <sup>A</sup>:</b>	<b>85.8</b>	<b>4,916</b>	<b>5,746.3</b>	<b>130.7</b>	<b>894.3</b>

**Legend / Notes:**

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since 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 - 3rd 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks <sup>A</sup> (pounds)
07/03/15	--	32.02	--	0.0	40	46.8	5.2	35.5
07/09/15	--	32.12	--	0.0	44	51.4	5.6	38.3
07/20/15	--	32.30	--	0.0	52	60.8	6.1	41.5
07/29/15	--	32.03	--	0.0	20	23.4	6.3	42.8
08/06/15	--	32.25	--	0.0	36	42.1	6.6	45.0
08/14/15	--	33.42	--	0.0	36	42.1	6.9	47.3
09/09/15	32.39	32.43	0.04	0.0	44	51.4	7.3	50.0
09/17/15	--	32.30	--	0.0	20	23.4	7.5	51.3
09/23/15	--	32.34	--	0.0	20	23.4	7.7	52.5
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>312</b>	<b>364.7</b>	<b>2.8</b>	<b>19.5</b>
<b>Cumulative Beginning June 2015 <sup>A</sup>:</b>				<b>3.0</b>	<b>512</b>	<b>598.5</b>	<b>7.7</b>	<b>52.5</b>

**Legend / Notes:**

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since June 2015.

**TABLE 8g**  
**Summary of LNAPL Removal in GMW-7 - 3rd 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks <sup>A</sup> (pounds)
07/03/15	32.89	33.09	0.20	0.0	28	32.7	3.9	26.7
07/09/15	32.92	33.18	0.26	0.0	32	37.4	4.2	28.7
07/20/15	32.96	33.27	0.31	0.0	52	60.8	4.7	32.0
07/29/15	33.01	33.41	0.40	0.0	40	46.8	5.0	34.5
08/06/15	32.99	33.48	0.49	0.0	44	51.4	5.4	37.2
08/14/15	33.09	33.63	0.54	1.0	44	51.4	6.8	46.8
09/09/15	32.85	34.61	1.76	1.5	0	0.0	8.3	57.1
09/17/15	33.03	34.22	1.19	1.0	0	0.0	9.3	63.9
09/23/15	33.09	34.01	0.92	1.0	0	0.0	10.3	70.8
<b>Cumulative for the Reporting Period:</b>				<b>4.5</b>	<b>240</b>	<b>280.5</b>	<b>6.7</b>	<b>45.8</b>
<b>Cumulative Beginning December 2014 <sup>A</sup>:</b>				<b>4.5</b>	<b>640</b>	<b>748.1</b>	<b>10.3 <sup>B</sup></b>	<b>70.8 <sup>B</sup></b>

**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.

B = Corrected for calculation error dating back to December 2014.



**APPENDIX A**

**LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**



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

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July 14, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331409 / 5G09023**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/09/15 17:44 and analyzed in accordance with the attached chain-of-custody.

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

If you have any questions regarding this report or require additional information please call me at American 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:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15

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

Influent	5G09023-01	Vapor	5	07/09/15 13:50	07/09/15 17:44
Effluent	5G09023-02	Vapor	5	07/09/15 13:42	07/09/15 17:44

**VOCs Gasoline Range Organics Vapor**

Influent	5G09023-01	Vapor	5	07/09/15 13:50	07/09/15 17:44
Effluent	5G09023-02	Vapor	5	07/09/15 13:42	07/09/15 17:44

**VOCs GRO Vapor as Hexane**

Influent	5G09023-01	Vapor	5	07/09/15 13:50	07/09/15 17:44
Effluent	5G09023-02	Vapor	5	07/09/15 13:42	07/09/15 17:44

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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Influent****5G09023-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>0.58</b>	ug/L	0.50	<b>0.15</b>	ppmv	0.13
o-Xylene	<b>2.9</b>	ug/L	0.50	<b>0.67</b>	ppmv	0.12
m,p-Xylenes	<b>3.1</b>	ug/L	1.0	<b>0.71</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

106 %  
109 %  
106 %

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

**AA Project No:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Effluent****5G09023-02 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
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

106 %  
111 %  
109 %

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:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Influent****5G09023-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>600</b>	ug/L	20	<b>150</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.6 %			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:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Effluent****5G09023-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	21	ug/L	20	5.1	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Influent****5G09023-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	600	ug/L	20	170	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.6 %			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:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15  
**Sampled:** 07/09/15  
**Prepared:** 07/10/15  
**Analyzed:** 07/10/15

**Effluent****5G09023-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	21	ug/L	20	6.0	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15

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 B5G1002 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5G1002-BLK1)**

Prepared & Analyzed: 07/10/15

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	54.9		ug/L	50		110 70-140			
Surrogate: Dibromofluoromethane	52.6		ug/L	50		105 70-140			
Surrogate: Toluene-d8	55.4		ug/L	50		111 70-140			

**LCS (B5G1002-BS1)**

Prepared & Analyzed: 07/10/15

Benzene	21.1	0.50	ug/L	20		106 75-125			
Ethylbenzene	23.0	0.50	ug/L	20		115 75-125			
Methyl-tert-Butyl Ether (MTBE)	22.9	2.0	ug/L	20		114 75-125			
Toluene	21.5	0.50	ug/L	20		108 75-125			
o-Xylene	23.1	0.50	ug/L	20		116 75-125			
m,p-Xylenes	44.9	1.0	ug/L	40		112 75-125			

Surrogate: 4-Bromofluorobenzene	56.9		ug/L	50		114 70-140			
Surrogate: Dibromofluoromethane	52.5		ug/L	50		105 70-140			
Surrogate: Toluene-d8	53.4		ug/L	50		107 70-140			

**LCS Dup (B5G1002-BSD1)**

Prepared & Analyzed: 07/10/15

Benzene	19.2	0.50	ug/L	20		95.9 75-125	9.68	30	
Ethylbenzene	22.1	0.50	ug/L	20		110 75-125	4.25	30	
Methyl-tert-Butyl Ether (MTBE)	20.8	2.0	ug/L	20		104 75-125	9.61	30	
Toluene	19.5	0.50	ug/L	20		97.6 75-125	9.65	30	
o-Xylene	21.9	0.50	ug/L	20		110 75-125	5.33	30	
m,p-Xylenes	43.0	1.0	ug/L	40		107 75-125	4.30	30	

Surrogate: 4-Bromofluorobenzene	55.8		ug/L	50		112 70-140			
Surrogate: Dibromofluoromethane	51.5		ug/L	50		103 70-140			
Surrogate: Toluene-d8	52.9		ug/L	50		106 70-140			

**Duplicate (B5G1002-DUP1)**

Source: 5G09024-02 Prepared & Analyzed: 07/10/15

**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: A5331409  
Date Received: 07/09/15  
Date Reported: 07/14/15

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 B5G1002 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B5G1002-DUP1) Continued Source: 5G09024-02 Prepared & Analyzed: 07/10/15

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	55.1		ug/L	50		110	70-140			
Surrogate: Dibromofluoromethane	52.7		ug/L	50		105	70-140			
Surrogate: Toluene-d8	54.1		ug/L	50		108	70-140			

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

Batch B5G1007 - \*\*\* DEFAULT PREP \*\*\*

Blank (B5G1007-BLK1) Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	51.8		ug/L	50		104	70-130			

LCS (B5G1007-BS1) Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	487	20	ug/L	500		97.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	49.6		ug/L	50		99.2	70-130			

LCS Dup (B5G1007-BSD1) Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	424	20	ug/L	500		84.8	75-125	13.9	30	
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/L	50		87.0	70-130			

Duplicate (B5G1007-DUP1) Source: 5G07007-01 Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	48.3	20	ug/L			49.7		2.92	30	
Surrogate: a,a,a-Trifluorotoluene	50.7		ug/L	50		101	70-130			

Duplicate (B5G1007-DUP2) Source: 5G09017-01 Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	20.4	20	ug/L			24.3		17.4	30	
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/L	50		80.9	70-130			

Duplicate (B5G1007-DUP3) Source: 5G09023-01 Prepared & Analyzed: 07/10/15

Gasoline Range Organics (GRO)	459	20	ug/L			600		26.6	30	
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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 VES AQMD

AA Project No: A5331409  
Date Received: 07/09/15  
Date Reported: 07/14/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>									
<i>Batch B5G1007 - *** DEFAULT PREP ***</i>									
<b>Duplicate (B5G1007-DUP3) Continued</b> Source: 5G09023-01 Prepared & Analyzed: 07/10/15									
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50		93.1 70-130			
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>									
<i>Batch B5G1007 - *** DEFAULT PREP ***</i>									
<b>Blank (B5G1007-BLK1)</b> Prepared & Analyzed: 07/10/15									
GRO as Hexane	<20	20	ug/L						
Surrogate: a,a,a-Trifluorotoluene	51.8		ug/L	50		104 70-130			
<b>LCS (B5G1007-BS1)</b> Prepared & Analyzed: 07/10/15									
GRO as Hexane	487	20	ug/L	500		97.4 75-125			
Surrogate: a,a,a-Trifluorotoluene	49.6		ug/L	50		99.2 70-130			
<b>LCS Dup (B5G1007-BSD1)</b> Prepared & Analyzed: 07/10/15									
GRO as Hexane	424	20	ug/L	500		84.8 75-125	13.9	30	
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/L	50		87.0 70-130			
<b>Duplicate (B5G1007-DUP1)</b> Source: 5G07007-01 Prepared & Analyzed: 07/10/15									
GRO as Hexane	48.3	20	ug/L		49.7		2.92	30	
Surrogate: a,a,a-Trifluorotoluene	50.7		ug/L	50		101 70-130			
<b>Duplicate (B5G1007-DUP2)</b> Source: 5G09017-01 Prepared & Analyzed: 07/10/15									
GRO as Hexane	20.4	20	ug/L		24.3		17.4	30	
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/L	50		80.9 70-130			
<b>Duplicate (B5G1007-DUP3)</b> Source: 5G09023-01 Prepared & Analyzed: 07/10/15									
GRO as Hexane	459	20	ug/L		600		26.6	30	
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50		93.1 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

**AA Project No:** A5331409  
**Date Received:** 07/09/15  
**Date Reported:** 07/14/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

122950

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 04-SDLA Sampler's Name: Glenn Androske  
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: Glenn Androske  
 Phone: 562-597-1055 City: Norwalk P.O. No.: 04-NDLA-013  
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

### TAT Turnaround Codes \*\*

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

### ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below		
Total VOCs Gas 8019	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Total VOCs Hexane B015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BTEX/MTBE 8260B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Special Instructions

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	Relinquished by	Date	Time	Received by
Influent	7-9-15	1350	Air	1	Glenn Androske	7-10-15	1803	Received by
Effluent	"	1342	Air	1	Glenn Androske	7/9/15	1744	Received by
								Received by
								Received by
								Received by
								Received by
								Received by
								Received by
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								Received by
								Received by
								Received by

**PRIORITY**  
 Mrs. Glenna Androske  
 Rush Date 7/10/15

AS331409/SG09023

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



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

---

July 20, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331418 / 5G16001**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/16/15 07:54 and analyzed in accordance with the attached chain-of-custody.

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

If you have any questions regarding this report or require additional information please call me at American 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:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15

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

Influent	5G16001-01	Vapor	5	07/15/15 09:58	07/16/15 07:54
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**VOCs Gasoline Range Organics Vapor**

Influent	5G16001-01	Vapor	5	07/15/15 09:58	07/16/15 07:54
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**VOCs GRO Vapor as Hexane**

Influent	5G16001-01	Vapor	5	07/15/15 09:58	07/16/15 07:54
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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15  
**Sampled:** 07/15/15  
**Prepared:** 07/16/15  
**Analyzed:** 07/16/15

**Influent****5G16001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<b>0.78</b>	ug/L	0.50	<b>0.18</b>	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>2.0</b>	ug/L	0.50	<b>0.53</b>	ppmv	0.13
o-Xylene	<b>4.3</b>	ug/L	0.50	<b>0.99</b>	ppmv	0.12
m,p-Xylenes	<b>6.3</b>	ug/L	1.0	<b>1.5</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

95.7 %  
109 %  
91.0 %

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:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15  
**Sampled:** 07/15/15  
**Prepared:** 07/16/15  
**Analyzed:** 07/16/15

**Influent****5G16001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>700</b>	ug/L	20	<b>170</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		104 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15  
**Sampled:** 07/15/15  
**Prepared:** 07/16/15  
**Analyzed:** 07/16/15

**Influent****5G16001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<b>700</b>	ug/L	20	<b>200</b>	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		104 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15

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 B5G1602 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5G1602-BLK1)**

Prepared & Analyzed: 07/16/15

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	47.8		ug/L	50		95.6	70-140		
Surrogate: Dibromofluoromethane	50.8		ug/L	50		102	70-140		
Surrogate: Toluene-d8	46.4		ug/L	50		92.8	70-140		

**LCS (B5G1602-BS1)**

Prepared & Analyzed: 07/16/15

Benzene	20.6	0.50	ug/L	20		103	75-125		
Ethylbenzene	20.3	0.50	ug/L	20		102	75-125		
Methyl-tert-Butyl Ether (MTBE)	20.6	2.0	ug/L	20		103	75-125		
Toluene	22.3	0.50	ug/L	20		112	75-125		
o-Xylene	22.9	0.50	ug/L	20		114	75-125		
m,p-Xylenes	45.1	1.0	ug/L	40		113	75-125		

Surrogate: 4-Bromofluorobenzene	47.5		ug/L	50		95.0	70-140		
Surrogate: Dibromofluoromethane	51.8		ug/L	50		104	70-140		
Surrogate: Toluene-d8	45.5		ug/L	50		90.9	70-140		

**LCS Dup (B5G1602-BSD1)**

Prepared & Analyzed: 07/16/15

Benzene	21.4	0.50	ug/L	20		107	75-125	4.00	30
Ethylbenzene	19.4	0.50	ug/L	20		96.8	75-125	4.74	30
Methyl-tert-Butyl Ether (MTBE)	21.5	2.0	ug/L	20		108	75-125	4.37	30
Toluene	21.2	0.50	ug/L	20		106	75-125	4.96	30
o-Xylene	21.5	0.50	ug/L	20		108	75-125	6.13	30
m,p-Xylenes	42.9	1.0	ug/L	40		107	75-125	4.95	30

Surrogate: 4-Bromofluorobenzene	47.3		ug/L	50		94.6	70-140		
Surrogate: Dibromofluoromethane	55.6		ug/L	50		111	70-140		
Surrogate: Toluene-d8	45.0		ug/L	50		90.1	70-140		

**Gasoline Range Organics in Vapor 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 VES AQMD

AA Project No: A5331418  
Date Received: 07/16/15  
Date Reported: 07/20/15

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

Batch B5G1611 - \*\*\* DEFAULT PREP \*\*\*

<b>Blank (B5G1611-BLK1)</b>				Prepared & Analyzed: 07/16/15					
Gasoline Range Organics (GRO)	<20	20	ug/L						
Surrogate: a,a,a-Trifluorotoluene	50.4		ug/L	50		101 70-130			
<b>LCS (B5G1611-BS1)</b>				Prepared & Analyzed: 07/16/15					
Gasoline Range Organics (GRO)	<b>521</b>	20	ug/L	500		104 75-125			
Surrogate: a,a,a-Trifluorotoluene	52.8		ug/L	50		106 70-130			
<b>LCS Dup (B5G1611-BSD1)</b>				Prepared & Analyzed: 07/16/15					
Gasoline Range Organics (GRO)	<b>557</b>	20	ug/L	500		111 75-125	6.62	30	
Surrogate: a,a,a-Trifluorotoluene	55.7		ug/L	50		111 70-130			
<b>Duplicate (B5G1611-DUP1)</b>				Source: 5G16001-01 Prepared & Analyzed: 07/16/15					
Gasoline Range Organics (GRO)	<b>675</b>	20	ug/L		699		3.54	30	
Surrogate: a,a,a-Trifluorotoluene	49.3		ug/L	50		98.7 70-130			
<b>Duplicate (B5G1611-DUP2)</b>				Source: 5G16007-01 Prepared & Analyzed: 07/16/15					
Gasoline Range Organics (GRO)	<b>159</b>	20	ug/L		185		14.9	30	
Surrogate: a,a,a-Trifluorotoluene	50.5		ug/L	50		101 70-130			

#### Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B5G1611 - \*\*\* DEFAULT PREP \*\*\*

<b>Blank (B5G1611-BLK1)</b>				Prepared & Analyzed: 07/16/15					
GRO as Hexane	<20	20	ug/L						
Surrogate: a,a,a-Trifluorotoluene	50.4		ug/L	50		101 70-130			
<b>LCS (B5G1611-BS1)</b>				Prepared & Analyzed: 07/16/15					
GRO as Hexane	<b>521</b>	20	ug/L	500		104 75-125			
Surrogate: a,a,a-Trifluorotoluene	52.8		ug/L	50		106 70-130			
<b>LCS Dup (B5G1611-BSD1)</b>				Prepared & Analyzed: 07/16/15					
GRO as Hexane	<b>557</b>	20	ug/L	500		111 75-125	6.62	30	
Surrogate: a,a,a-Trifluorotoluene	55.7		ug/L	50		111 70-130			
<b>Duplicate (B5G1611-DUP1)</b>				Source: 5G16001-01 Prepared & Analyzed: 07/16/15					
GRO as Hexane	<b>675</b>	20	ug/L		699		3.54	30	

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:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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**Gasoline Range Organics in Vapor as Hexane - Quality Control**

*Batch B5G1611 - \*\*\* DEFAULT PREP \*\*\**

**Duplicate (B5G1611-DUP1) Continued** Source: 5G16001-01 Prepared & Analyzed: 07/16/15

Surrogate: a,a,a-Trifluorotoluene 49.3 ug/L 50 98.7 70-130

**Duplicate (B5G1611-DUP2)** Source: 5G16007-01 Prepared & Analyzed: 07/16/15

GRO as Hexane 159 20 ug/L 185 14.9 30

Surrogate: a,a,a-Trifluorotoluene 50.5 ug/L 50 101 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:** A5331418  
**Date Received:** 07/16/15  
**Date Reported:** 07/20/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager







9765 Eton Avenue  
Chatsworth  
California 91311  
Tel: (818) 998-5547  
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July 29, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331423 / 5G21010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/21/15 10:06 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15

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

Influent	5G21010-01	Vapor	5	07/21/15 08:37	07/21/15 10:06
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**VOCs Gasoline Range Organics Vapor**

Influent	5G21010-01	Vapor	5	07/21/15 08:37	07/21/15 10:06
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**VOCs GRO Vapor as Hexane**

Influent	5G21010-01	Vapor	5	07/21/15 08:37	07/21/15 10:06
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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15  
**Sampled:** 07/21/15  
**Prepared:** 07/21/15  
**Analyzed:** 07/21/15

**Influent****5G21010-01 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>0.94</b>	ug/L	0.50	<b>0.25</b>	ppmv	0.13
o-Xylene	<b>3.1</b>	ug/L	0.50	<b>0.71</b>	ppmv	0.12
m,p-Xylenes	<b>2.7</b>	ug/L	1.0	<b>0.62</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

95.2 %  
110 %  
93.0 %

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:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15  
**Sampled:** 07/21/15  
**Prepared:** 07/24/15  
**Analyzed:** 07/24/15

**Influent****5G21010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>640</b>	ug/L	20	<b>160</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15  
**Sampled:** 07/21/15  
**Prepared:** 07/24/15  
**Analyzed:** 07/24/15

**Influent**

**5G21010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	640	ug/L	20	180	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15

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 B5G2119 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5G2119-BLK1)**

Prepared & Analyzed: 07/21/15

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	49.4		ug/L	50		98.7 70-140			
Surrogate: Dibromofluoromethane	52.7		ug/L	50		105 70-140			
Surrogate: Toluene-d8	47.4		ug/L	50		94.8 70-140			

**LCS (B5G2119-BS1)**

Prepared & Analyzed: 07/21/15

Benzene	<b>23.8</b>	0.50	ug/L	20		119 75-125			
Ethylbenzene	<b>20.7</b>	0.50	ug/L	20		103 75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>16.7</b>	2.0	ug/L	20		83.5 75-125			
Toluene	<b>22.2</b>	0.50	ug/L	20		111 75-125			
o-Xylene	<b>21.4</b>	0.50	ug/L	20		107 75-125			
m,p-Xylenes	<b>43.7</b>	1.0	ug/L	40		109 75-125			

Surrogate: 4-Bromofluorobenzene	48.9		ug/L	50		97.8 70-140			
Surrogate: Dibromofluoromethane	51.7		ug/L	50		103 70-140			
Surrogate: Toluene-d8	48.1		ug/L	50		96.2 70-140			

**LCS Dup (B5G2119-BSD1)**

Prepared & Analyzed: 07/21/15

Benzene	<b>23.8</b>	0.50	ug/L	20		119 75-125	0.0421	30	
Ethylbenzene	<b>21.5</b>	0.50	ug/L	20		108 75-125	3.84	30	
Methyl-tert-Butyl Ether (MTBE)	<b>21.2</b>	2.0	ug/L	20		106 75-125	23.7	30	
Toluene	<b>23.0</b>	0.50	ug/L	20		115 75-125	3.14	30	
o-Xylene	<b>22.8</b>	0.50	ug/L	20		114 75-125	6.74	30	
m,p-Xylenes	<b>45.7</b>	1.0	ug/L	40		114 75-125	4.52	30	

Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50		97.3 70-140			
Surrogate: Dibromofluoromethane	51.8		ug/L	50		104 70-140			
Surrogate: Toluene-d8	47.0		ug/L	50		94.0 70-140			

**Duplicate (B5G2119-DUP1)**

Source: 5G21010-01 Prepared & Analyzed: 07/21/15

**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:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15

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 B5G2119 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B5G2119-DUP1) Continued** Source: 5G21010-01 Prepared & Analyzed: 07/21/15

Benzene	<0.50	0.50	ug/L		<0.50					30
Ethylbenzene	<0.50	0.50	ug/L		0.420					30
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0					30
Toluene	0.810	0.50	ug/L		0.940			14.9		30
o-Xylene	2.68	0.50	ug/L		3.12			15.2		30
m,p-Xylenes	2.27	1.0	ug/L		2.73			18.4		30

Surrogate: 4-Bromofluorobenzene 47.7 ug/L 50 95.4 70-140

Surrogate: Dibromofluoromethane 55.7 ug/L 50 111 70-140

Surrogate: Toluene-d8 46.4 ug/L 50 92.7 70-140

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

Batch B5G2410 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5G2410-BLK1)** Prepared & Analyzed: 07/24/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	43.2		ug/L	50	86.4					70-130

**LCS (B5G2410-BS1)** Prepared & Analyzed: 07/24/15

Gasoline Range Organics (GRO)	535	20	ug/L	500	107					75-125
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/L	50	105					70-130

**LCS Dup (B5G2410-BSD1)** Prepared & Analyzed: 07/24/15

Gasoline Range Organics (GRO)	573	20	ug/L	500	115			6.79		30
Surrogate: a,a,a-Trifluorotoluene	53.3		ug/L	50	107					70-130

**Duplicate (B5G2410-DUP1)** Source: 5G21010-01 Prepared & Analyzed: 07/24/15

Gasoline Range Organics (GRO)	498	20	ug/L		641			25.1		30
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50	92.9					70-130

**Gasoline Range Organics in Vapor as Hexane - Quality Control**

Batch B5G2410 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5G2410-BLK1)** Prepared & Analyzed: 07/24/15

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	43.2		ug/L	50	86.4					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:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>									
<i>Batch B5G2410 - *** DEFAULT PREP ***</i>									
<b>LCS (B5G2410-BS1)</b>				Prepared & Analyzed: 07/24/15					
GRO as Hexane	535	20	ug/L	500	107	75-125			
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/L	50	105	70-130			
<b>LCS Dup (B5G2410-BSD1)</b>				Prepared & Analyzed: 07/24/15					
GRO as Hexane	573	20	ug/L	500	115	75-125	6.79	30	
Surrogate: a,a,a-Trifluorotoluene	53.3		ug/L	50	107	70-130			
<b>Duplicate (B5G2410-DUP1)</b>				Source: 5G21010-01 Prepared & Analyzed: 07/24/15					
GRO as Hexane	498	20	ug/L		641		25.1	30	
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50	92.9	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:** A5331423  
**Date Received:** 07/21/15  
**Date Reported:** 07/29/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

123033

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

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 04-SDLA  
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd  
 Phone: 562-597-1055 City: Norwalk State & Zip: CA 90650  
 Fax: 569-597-1070

Sampler's Name: Glenn Androsko

Sampler's Signature: *Glenn Androsko*

P.O. No.: 04-NDLA-013

Quote No.:

ANALYSIS REQUESTED (Test Name)

**TAT Turnaround Codes \*\***

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

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	ANALYSIS REQUESTED (Test Name)				Special Instructions
					Total VOCs Gas 8078	Total VOCs Hexane 8075	BTEX/MTBE 8280B		
	5/21/10	0837	Air	1					
	7-21-15		Air	1					

Please enter the TAT Turnaround Codes \*\* below

PRIORITY  
 HFS  
 AUTHORITY  
 with  
 HFS  
 HFS  
 HFS  
 HFS

Relinquished by	Date	Time	Received by	Time
<i>Glenn Androsko</i>	7-21-15	0845	<i>John Q. A.</i>	
<i>John P. D.</i>	07/21/15	10:00	<i>John P. D.</i>	

A5331423/5521010

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



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

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August 10, 2015

Neil Irish

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

**Re : DFSP Norwalk / 04-NDLA-001  
A5331433 / 5G29010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/29/15 14:39 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-001  
**Project Name:** DFSP Norwalk

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15

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

Influent	5G29010-01	Vapor	5	07/29/15 10:10	07/29/15 14:39
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**VOCs Gasoline Range Organics Vapor**

Influent	5G29010-01	Vapor	5	07/29/15 10:10	07/29/15 14:39
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**VOCs GRO Vapor as Hexane**

Influent	5G29010-01	Vapor	5	07/29/15 10:10	07/29/15 14:39
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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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15  
**Sampled:** 07/29/15  
**Prepared:** 07/30/15  
**Analyzed:** 07/30/15

**Influent****5G29010-01 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<b>1.4</b>	ug/L	0.50	<b>0.32</b>	ppmv	0.12
m,p-Xylenes	<b>1.1</b>	ug/L	1.0	<b>0.25</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

110 %  
114 %  
111 %

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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15  
**Sampled:** 07/29/15  
**Prepared:** 07/30/15  
**Analyzed:** 07/30/15

**Influent****5G29010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>710</b>	ug/L	20	<b>170</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		108 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15  
**Sampled:** 07/29/15  
**Prepared:** 07/30/15  
**Analyzed:** 07/30/15

**Influent****5G29010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	710	ug/L	20	200	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		108 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>									
<i>Batch B5G3002 - *** DEFAULT PREP ***</i>									
<b>Blank (B5G3002-BLK1)</b>					Prepared & Analyzed: 07/30/15				
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						
<i>Surrogate: 4-Bromofluorobenzene</i>	56.6		ug/L	50		113 70-140			
<i>Surrogate: Dibromofluoromethane</i>	53.5		ug/L	50		107 70-140			
<i>Surrogate: Toluene-d8</i>	55.3		ug/L	50		111 70-140			
<b>LCS (B5G3002-BS1)</b>					Prepared & Analyzed: 07/30/15				
Benzene	<b>23.1</b>	0.50	ug/L	20		115 75-125			
Ethylbenzene	<b>24.2</b>	0.50	ug/L	20		121 75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>23.0</b>	2.0	ug/L	20		115 75-125			
Toluene	<b>22.9</b>	0.50	ug/L	20		114 75-125			
o-Xylene	<b>24.9</b>	0.50	ug/L	20		124 75-125			
m,p-Xylenes	<b>47.0</b>	1.0	ug/L	40		117 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	58.1		ug/L	50		116 70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.4		ug/L	50		105 70-140			
<i>Surrogate: Toluene-d8</i>	52.7		ug/L	50		105 70-140			
<b>LCS Dup (B5G3002-BSD1)</b>					Prepared & Analyzed: 07/30/15				
Benzene	<b>19.2</b>	0.50	ug/L	20		95.8 75-125	18.5	30	
Ethylbenzene	<b>20.5</b>	0.50	ug/L	20		102 75-125	16.7	30	
Methyl-tert-Butyl Ether (MTBE)	<b>24.9</b>	2.0	ug/L	20		125 75-125	8.09	30	
Toluene	<b>19.0</b>	0.50	ug/L	20		95.0 75-125	18.6	30	
o-Xylene	<b>19.9</b>	0.50	ug/L	20		99.6 75-125	22.3	30	
m,p-Xylenes	<b>38.6</b>	1.0	ug/L	40		96.5 75-125	19.5	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.7		ug/L	50		115 70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.5		ug/L	50		111 70-140			
<i>Surrogate: Toluene-d8</i>	53.1		ug/L	50		106 70-140			
<b>Duplicate (B5G3002-DUP1)</b>					Source: 5G29008-06 Prepared & Analyzed: 07/30/15				

**Viorel Vasile**  
Operations Manager





### LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331433  
Date Received: 07/29/15  
Date Reported: 08/10/15

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 B5G3002 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B5G3002-DUP1) Continued Source: 5G29008-06 Prepared & Analyzed: 07/30/15

Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
Surrogate: 4-Bromofluorobenzene	54.8		ug/L	50		110	70-140			
Surrogate: Dibromofluoromethane	55.8		ug/L	50		112	70-140			
Surrogate: Toluene-d8	58.0		ug/L	50		116	70-140			

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

Batch B5G3007 - \*\*\* DEFAULT PREP \*\*\*

Blank (B5G3007-BLK1) Prepared & Analyzed: 07/30/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.7		ug/L	50		97.3	70-130			

LCS (B5G3007-BS1) Prepared & Analyzed: 07/30/15

Gasoline Range Organics (GRO)	507	20	ug/L	500		101	75-125			
Surrogate: a,a,a-Trifluorotoluene	53.6		ug/L	50		107	70-130			

LCS Dup (B5G3007-BSD1) Prepared & Analyzed: 07/30/15

Gasoline Range Organics (GRO)	560	20	ug/L	500		112	75-125	10.0	30	
Surrogate: a,a,a-Trifluorotoluene	62.4		ug/L	50		125	70-130			

Duplicate (B5G3007-DUP1) Source: 5G29010-01 Prepared & Analyzed: 07/30/15

Gasoline Range Organics (GRO)	539	20	ug/L			714		28.0	30	
Surrogate: a,a,a-Trifluorotoluene	49.2		ug/L	50		98.4	70-130			

#### Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B5G3007 - \*\*\* DEFAULT PREP \*\*\*

Blank (B5G3007-BLK1) Prepared & Analyzed: 07/30/15

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.7		ug/L	50		97.3	70-130			

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>										
<i>Batch B5G3007 - *** DEFAULT PREP ***</i>										
<b>LCS (B5G3007-BS1)</b>				Prepared & Analyzed: 07/30/15						
GRO as Hexane	507	20	ug/L	500	101	75-125				
Surrogate: a,a,a-Trifluorotoluene	53.6		ug/L	50	107	70-130				
<b>LCS Dup (B5G3007-BSD1)</b>				Prepared & Analyzed: 07/30/15						
GRO as Hexane	560	20	ug/L	500	112	75-125	10.0	30		
Surrogate: a,a,a-Trifluorotoluene	62.4		ug/L	50	125	70-130				
<b>Duplicate (B5G3007-DUP1)</b>				Source: 5G29010-01 Prepared & Analyzed: 07/30/15						
GRO as Hexane	539	20	ug/L		714		28.0	30		
Surrogate: a,a,a-Trifluorotoluene	49.2		ug/L	50	98.4	70-130				

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331433  
**Date Received:** 07/29/15  
**Date Reported:** 08/10/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager





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August 17, 2015

Neil Irish

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

**Re : DFSP Norwalk / 04-NDLA-013  
A5331442 / 5H11002**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/11/15 09:34 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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15

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

VEW-32	5H11002-01	Vapor	5	08/10/15 14:15	08/11/15 09:34
VEW-33	5H11002-02	Vapor	5	08/10/15 14:07	08/11/15 09:34
VEW-34	5H11002-03	Vapor	5	08/10/15 13:56	08/11/15 09:34
VEW-35	5H11002-04	Vapor	5	08/10/15 14:41	08/11/15 09:34
VEW-36	5H11002-05	Vapor	5	08/10/15 14:33	08/11/15 09:34
VEW-37	5H11002-06	Vapor	5	08/10/15 14:27	08/11/15 09:34
HW-1	5H11002-07	Vapor	5	08/10/15 15:06	08/11/15 09:34
HW-3	5H11002-08	Vapor	5	08/10/15 15:09	08/11/15 09:34
HW-5	5H11002-09	Vapor	5	08/10/15 15:13	08/11/15 09:34
HW-7	5H11002-10	Vapor	5	08/10/15 15:17	08/11/15 09:34

**VOCs Gasoline Range Organics Vapor**

VEW-32	5H11002-01	Vapor	5	08/10/15 14:15	08/11/15 09:34
VEW-33	5H11002-02	Vapor	5	08/10/15 14:07	08/11/15 09:34
VEW-34	5H11002-03	Vapor	5	08/10/15 13:56	08/11/15 09:34
VEW-35	5H11002-04	Vapor	5	08/10/15 14:41	08/11/15 09:34
VEW-36	5H11002-05	Vapor	5	08/10/15 14:33	08/11/15 09:34
VEW-37	5H11002-06	Vapor	5	08/10/15 14:27	08/11/15 09:34
HW-1	5H11002-07	Vapor	5	08/10/15 15:06	08/11/15 09:34

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
HW-3	5H11002-08	Vapor	5	08/10/15 15:09	08/11/15 09:34
HW-5	5H11002-09	Vapor	5	08/10/15 15:13	08/11/15 09:34
HW-7	5H11002-10	Vapor	5	08/10/15 15:17	08/11/15 09:34

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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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-32****5H11002-01 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	<b>2.1</b>	ug/L	0.50	<b>0.66</b>	ppmv	0.16
Ethylbenzene	<b>1.0</b>	ug/L	0.50	<b>0.23</b>	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<b>2.0</b>	ug/L	1.0	<b>0.46</b>	ppmv	0.23

<b><u>Surrogates</u></b>	<b><u>%REC</u></b>	<b><u>%REC Limits</u></b>
4-Bromofluorobenzene	112 %	70-140
Dibromofluoromethane	104 %	70-140
Toluene-d8	106 %	70-140

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-33****5H11002-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.6	ug/L	0.50	0.50	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	1.4	ug/L	1.0	0.32	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

104 %  
102 %  
107 %

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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-34****5H11002-03 (Vapor)**

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

<b><u>Surrogates</u></b>	<b><u>%REC</u></b>	<b><u>%REC Limits</u></b>
4-Bromofluorobenzene	113 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	113 %	70-140

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-35****5H11002-04 (Vapor)**

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

<b><u>Surrogates</u></b>	<b><u>%REC</u></b>	<b><u>%REC Limits</u></b>
4-Bromofluorobenzene	112 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	111 %	70-140

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-36**

**5H11002-05 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	111 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	108 %	70-140

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**VEW-37****5H11002-06 (Vapor)**

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

<b><u>Surrogates</u></b>	<b><u>%REC</u></b>	<b><u>%REC Limits</u></b>
4-Bromofluorobenzene	112 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	108 %	70-140

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**HW-1****5H11002-07 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	3.3	ug/L	0.50	1.0	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	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

93.6 %  
104 %  
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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**HW-3****5H11002-08 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	20	ug/L	0.50	6.3	ppmv	0.16
Ethylbenzene	2.8	ug/L	0.50	0.64	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.3	ug/L	0.50	0.34	ppmv	0.13
o-Xylene	1.3	ug/L	0.50	0.30	ppmv	0.12
m,p-Xylenes	9.8	ug/L	1.0	2.3	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	101 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	110 %	70-140

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**HW-5****5H11002-09 (Vapor)**

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

<b><u>Surrogates</u></b>	<b><u>%REC</u></b>	<b><u>%REC Limits</u></b>
4-Bromofluorobenzene	100 %	70-140
Dibromofluoromethane	106 %	70-140
Toluene-d8	111 %	70-140

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**HW-7****5H11002-10 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	112 %	70-140
Dibromofluoromethane	112 %	70-140
Toluene-d8	109 %	70-140

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-32****5H11002-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1900</b>	ug/L	20	<b>460</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		102 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-33****5H11002-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1200</b>	ug/L	20	<b>290</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		102 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-34****5H11002-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	57	ug/L	20	14	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		88.2 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-35****5H11002-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		99.2 %			70-130	

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-36**

**5H11002-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	33	ug/L	20	8.1	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		100 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**VEW-37****5H11002-06 (Vapor)**

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

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** The Source Group, Inc. (SH)  
**Project No:** 04-NDLA-013  
**Project Name:** DFSP Norwalk  
**Matrix:** Vapor  
**Dilution:** 25  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/12/15  
**Analyzed:** 08/12/15

**HW-1****5H11002-07 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>11000</b>	ug/L	20	<b>2700</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**HW-3****5H11002-08 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>3900</b>	ug/L	20	<b>950</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**HW-5****5H11002-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>3800</b>	ug/L	20	<b>930</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		104 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15  
**Sampled:** 08/10/15  
**Prepared:** 08/11/15  
**Analyzed:** 08/11/15

**HW-7****5H11002-10 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	30	ug/L	20	7.3	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		103 %			70-130	

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15

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 B5H1205 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5H1205-BLK1)**

Prepared &amp; Analyzed: 08/12/15

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	53.5		ug/L	50		107	70-140		
Surrogate: Dibromofluoromethane	53.8		ug/L	50		108	70-140		
Surrogate: Toluene-d8	53.6		ug/L	50		107	70-140		

**LCS (B5H1205-BS1)**

Prepared &amp; Analyzed: 08/12/15

Benzene	<b>24.8</b>	0.50	ug/L	20		124	75-125		
Ethylbenzene	<b>24.8</b>	0.50	ug/L	20		124	75-125		
Methyl-tert-Butyl Ether (MTBE)	<b>19.1</b>	2.0	ug/L	20		95.5	75-125		
Toluene	<b>23.2</b>	0.50	ug/L	20		116	75-125		
o-Xylene	<b>24.2</b>	0.50	ug/L	20		121	75-125		
m,p-Xylenes	<b>48.6</b>	1.0	ug/L	40		121	75-125		

Surrogate: 4-Bromofluorobenzene	53.4		ug/L	50		107	70-140		
Surrogate: Dibromofluoromethane	51.4		ug/L	50		103	70-140		
Surrogate: Toluene-d8	53.1		ug/L	50		106	70-140		

**LCS Dup (B5H1205-BSD1)**

Prepared &amp; Analyzed: 08/12/15

Benzene	<b>21.6</b>	0.50	ug/L	20		108	75-125	13.7	30
Ethylbenzene	<b>23.4</b>	0.50	ug/L	20		117	75-125	5.81	30
Methyl-tert-Butyl Ether (MTBE)	<b>25.0</b>	2.0	ug/L	20		125	75-125	26.8	30
Toluene	<b>21.5</b>	0.50	ug/L	20		108	75-125	7.51	30
o-Xylene	<b>23.4</b>	0.50	ug/L	20		117	75-125	3.32	30
m,p-Xylenes	<b>45.8</b>	1.0	ug/L	40		115	75-125	5.78	30

Surrogate: 4-Bromofluorobenzene	55.6		ug/L	50		111	70-140		
Surrogate: Dibromofluoromethane	52.1		ug/L	50		104	70-140		
Surrogate: Toluene-d8	53.4		ug/L	50		107	70-140		

**Duplicate (B5H1205-DUP1)**

Source: 5H11002-02 Prepared &amp; Analyzed: 08/12/15

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331442  
Date Received: 08/11/15  
Date Reported: 08/17/15

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 B5H1205 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B5H1205-DUP1) Continued Source: 5H11002-02 Prepared & Analyzed: 08/12/15

Benzene	1.75	0.50	ug/L		1.56			11.5	30	
Ethylbenzene	<0.50	0.50	ug/L		<0.50				30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0				30	
Toluene	<0.50	0.50	ug/L		<0.50				30	
o-Xylene	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	1.25	1.0	ug/L		1.44			14.1	30	
Surrogate: 4-Bromofluorobenzene	55.5		ug/L	50		111	70-140			
Surrogate: Dibromofluoromethane	53.6		ug/L	50		107	70-140			
Surrogate: Toluene-d8	56.1		ug/L	50		112	70-140			

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

Batch B5H1108 - \*\*\* DEFAULT PREP \*\*\*

Blank (B5H1108-BLK1) Prepared & Analyzed: 08/11/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	54.2		ug/L	50		108	70-130			

LCS (B5H1108-BS1) Prepared & Analyzed: 08/11/15

Gasoline Range Organics (GRO)	558	20	ug/L	500		112	75-125			
Surrogate: a,a,a-Trifluorotoluene	50.1		ug/L	50		100	70-130			

LCS Dup (B5H1108-BSD1) Prepared & Analyzed: 08/11/15

Gasoline Range Organics (GRO)	562	20	ug/L	500		112	75-125	0.818	30	
Surrogate: a,a,a-Trifluorotoluene	52.3		ug/L	50		105	70-130			

Duplicate (B5H1108-DUP1) Source: 5H11002-03 Prepared & Analyzed: 08/11/15

Gasoline Range Organics (GRO)	72.7	20	ug/L		56.6			24.9	30	
Surrogate: a,a,a-Trifluorotoluene	49.4		ug/L	50		98.7	70-130			

Batch B5H1213 - \*\*\* DEFAULT PREP \*\*\*

Blank (B5H1213-BLK1) Prepared & Analyzed: 08/12/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	55.0		ug/L	50		110	70-130			

LCS (B5H1213-BS1) Prepared & Analyzed: 08/12/15

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B5H1213 - *** DEFAULT PREP ***</i>										
<b>LCS (B5H1213-BS1) Continued</b>				Prepared & Analyzed: 08/12/15						
Gasoline Range Organics (GRO)	558	20	ug/L	500	112	75-125				
Surrogate: a,a,a-Trifluorotoluene	52.7		ug/L	50	105	70-130				
<b>LCS Dup (B5H1213-BSD1)</b>				Prepared & Analyzed: 08/12/15						
Gasoline Range Organics (GRO)	561	20	ug/L	500	112	75-125	0.661	30		
Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50	107	70-130				
<b>Duplicate (B5H1213-DUP1)</b>				Source: 5H11002-07 Prepared & Analyzed: 08/12/15						
Gasoline Range Organics (GRO)	9630	500	ug/L	10600			10.0	30		
Surrogate: a,a,a-Trifluorotoluene	51.9		ug/L	50	104	70-130				

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331442  
**Date Received:** 08/11/15  
**Date Reported:** 08/17/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

123169

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 04-SDLA Sampler's Name: Glenn Androsko  
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *Glenn Androsko*  
 Phone: 562-597-1055 City: Norwalk P.O. No.: 04-NDLA-013  
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

### TAT Turnaround Codes \*\*

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

### ANALYSIS REQUESTED (Test Name)

Total VOCs as Gas	
BTEX/MTBE	
82608	

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	Special Instructions
VEW-32	8-10-15	1415	Air	1	
VEW-33		1407	Air	1	
VEW-34		1356	Air	1	
VEW-35		1441	Air	1	
VEW-36		1433	Air	1	
VEW-37		1427	Air	1	
HW-1		1506	Air	1	
HW-3		1504	Air	1	
HW-5		1513	Air	1	
HW-7		1517	Air	1	

Relinquished by	Date	Time	Received by	Time
<i>Glenn Androsko</i>	8-11-15	08:02	<i>Neil Irish</i>	
<i>Neil Irish</i>	08/11/15	09:34	<i>Neil Irish</i>	
<i>Neil Irish</i>			<i>Neil Irish</i>	

**PRIORITY**  
 Rush Date: 08/11/15 Hrs: 10:15 SH  
 Time: 10:15  
 AS 351442 / SH1002

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





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

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August 20, 2015

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331448 / 5H17012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/17/15 15:07 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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15

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

Influent	5H17012-01	Vapor	5	08/17/15 12:40	08/17/15 15:07
Effluent	5H17012-02	Vapor	5	08/17/15 12:25	08/17/15 15:07

**VOCs Gasoline Range Organics Vapor**

Influent	5H17012-01	Vapor	5	08/17/15 12:40	08/17/15 15:07
Effluent	5H17012-02	Vapor	5	08/17/15 12:25	08/17/15 15:07

**VOCs GRO Vapor as Hexane**

Influent	5H17012-01	Vapor	5	08/17/15 12:40	08/17/15 15:07
Effluent	5H17012-02	Vapor	5	08/17/15 12:25	08/17/15 15:07

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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Influent****5H17012-01 (Vapor)**

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

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

103 %  
118 %  
93.8 %

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

**AA Project No:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Effluent****5H17012-02 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
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

106 %  
121 %  
92.6 %

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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Influent****5H17012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>550</b>	ug/L	20	<b>130</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		99.7 %			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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Effluent****5H17012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		99.6 %			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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Influent****5H17012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	550	ug/L	20	160	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		99.7 %			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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15  
**Sampled:** 08/17/15  
**Prepared:** 08/18/15  
**Analyzed:** 08/18/15

**Effluent****5H17012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		99.6 %			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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15

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 B5H1802 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5H1802-BLK1)**

Prepared & Analyzed: 08/18/15

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	51.5		ug/L	50		103 70-140			
Surrogate: Dibromofluoromethane	57.2		ug/L	50		114 70-140			
Surrogate: Toluene-d8	46.1		ug/L	50		92.3 70-140			

**LCS (B5H1802-BS1)**

Prepared & Analyzed: 08/18/15

Benzene	23.3	0.50	ug/L	20		116 75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110 75-125			
Methyl-tert-Butyl Ether (MTBE)	40.6	2.0	ug/L	40		102 75-125			
Toluene	24.1	0.50	ug/L	20		120 75-125			
o-Xylene	22.6	0.50	ug/L	20		113 75-125			
m,p-Xylenes	45.6	1.0	ug/L	40		114 75-125			

Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50		104 70-140			
Surrogate: Dibromofluoromethane	46.3		ug/L	50		92.6 70-140			
Surrogate: Toluene-d8	47.0		ug/L	50		93.9 70-140			

**LCS Dup (B5H1802-BSD1)**

Prepared & Analyzed: 08/18/15

Benzene	23.6	0.50	ug/L	20		118 75-125	1.45	30	
Ethylbenzene	20.5	0.50	ug/L	20		102 75-125	6.94	30	
Methyl-tert-Butyl Ether (MTBE)	46.4	2.0	ug/L	40		116 75-125	13.4	30	
Toluene	22.5	0.50	ug/L	20		112 75-125	6.88	30	
o-Xylene	21.5	0.50	ug/L	20		108 75-125	4.71	30	
m,p-Xylenes	43.2	1.0	ug/L	40		108 75-125	5.47	30	

Surrogate: 4-Bromofluorobenzene	51.0		ug/L	50		102 70-140			
Surrogate: Dibromofluoromethane	52.9		ug/L	50		106 70-140			
Surrogate: Toluene-d8	45.1		ug/L	50		90.3 70-140			

**Duplicate (B5H1802-DUP1)**

Source: 5H17013-02 Prepared & Analyzed: 08/18/15

**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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15

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 B5H1802 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B5H1802-DUP1) Continued** Source: 5H17013-02 Prepared & Analyzed: 08/18/15

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	52.5		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	57.6		ug/L	50		115	70-140			
Surrogate: Toluene-d8	46.0		ug/L	50		92.1	70-140			

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

Batch B5H1803 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5H1803-BLK1)** Prepared: 08/18/15 Analyzed: 08/19/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	46.0		ug/L	50		92.1	70-130			

**LCS (B5H1803-BS1)** Prepared & Analyzed: 08/18/15

Gasoline Range Organics (GRO)	468	20	ug/L	500		93.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	51.8		ug/L	50		104	70-130			

**LCS Dup (B5H1803-BSD1)** Prepared & Analyzed: 08/18/15

Gasoline Range Organics (GRO)	436	20	ug/L	500		87.1	75-125	7.14	30	
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50		94.0	70-130			

**Duplicate (B5H1803-DUP1)** Source: 5H17012-01 Prepared & Analyzed: 08/18/15

Gasoline Range Organics (GRO)	441	20	ug/L			546		21.4	30	
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/L	50		85.3	70-130			

**Gasoline Range Organics in Vapor as Hexane - Quality Control**

Batch B5H1803 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5H1803-BLK1)** Prepared: 08/18/15 Analyzed: 08/19/15

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	46.0		ug/L	50		92.1	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

**AA Project No:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>									
<i>Batch B5H1803 - *** DEFAULT PREP ***</i>									
<b>LCS (B5H1803-BS1)</b>				Prepared & Analyzed: 08/18/15					
GRO as Hexane	468	20	ug/L	500	93.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	51.8		ug/L	50	104	70-130			
<b>LCS Dup (B5H1803-BSD1)</b>				Prepared & Analyzed: 08/18/15					
GRO as Hexane	436	20	ug/L	500	87.1	75-125	7.14	30	
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50	94.0	70-130			
<b>Duplicate (B5H1803-DUP1)</b>				Source: 5H17012-01 Prepared & Analyzed: 08/18/15					
GRO as Hexane	441	20	ug/L		546		21.4	30	
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/L	50	85.3	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:** A5331448  
**Date Received:** 08/17/15  
**Date Reported:** 08/20/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager





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

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September 17, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331469 / 5I09034**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/09/15 15:59 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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15

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

Influent	5I09034-01	Vapor	5	09/09/15 09:36	09/09/15 15:59
Effluent	5I09034-02	Vapor	5	09/09/15 09:30	09/09/15 15:59

**VOCs Gasoline Range Organics Vapor**

Influent	5I09034-01	Vapor	5	09/09/15 09:36	09/09/15 15:59
Effluent	5I09034-02	Vapor	5	09/09/15 09:30	09/09/15 15:59

**VOCs GRO Vapor as Hexane**

Influent	5I09034-01	Vapor	5	09/09/15 09:36	09/09/15 15:59
Effluent	5I09034-02	Vapor	5	09/09/15 09:30	09/09/15 15:59

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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Influent****5109034-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<b>0.95</b>	ug/L	0.50	<b>0.30</b>	ppmv	0.16
Ethylbenzene	<b>3.3</b>	ug/L	0.50	<b>0.76</b>	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>2.8</b>	ug/L	0.50	<b>0.74</b>	ppmv	0.13
o-Xylene	<b>3.0</b>	ug/L	0.50	<b>0.69</b>	ppmv	0.12
m,p-Xylenes	<b>11</b>	ug/L	1.0	<b>2.5</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

111 %  
118 %  
107 %

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

**AA Project No:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Effluent****5109034-02 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
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

112 %  
113 %  
110 %

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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Influent****5109034-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>760</b>	ug/L	20	<b>190</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		104 %			70-130	

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Effluent**

**5109034-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.4 %			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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Influent****5109034-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	760	ug/L	20	220	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		104 %			70-130	

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15  
**Sampled:** 09/09/15  
**Prepared:** 09/10/15  
**Analyzed:** 09/10/15

**Effluent**

**5109034-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.4 %			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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>									
<i>Batch B511619 - *** DEFAULT PREP ***</i>									
<b>Blank (B511619-BLK1)</b>					Prepared & Analyzed: 09/10/15				
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						
<i>Surrogate: 4-Bromofluorobenzene</i>	57.0		ug/L	50		114 70-140			
<i>Surrogate: Dibromofluoromethane</i>	59.0		ug/L	50		118 70-140			
<i>Surrogate: Toluene-d8</i>	55.4		ug/L	50		111 70-140			
<b>LCS (B511619-BS1)</b>					Prepared & Analyzed: 09/10/15				
Benzene	<b>21.0</b>	0.50	ug/L	20		105 75-125			
Ethylbenzene	<b>21.5</b>	0.50	ug/L	20		108 75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>26.0</b>	2.0	ug/L	20		130 75-125			**
Toluene	<b>19.6</b>	0.50	ug/L	20		98.2 75-125			
o-Xylene	<b>21.5</b>	0.50	ug/L	20		108 75-125			
m,p-Xylenes	<b>42.0</b>	1.0	ug/L	40		105 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	58.3		ug/L	50		117 70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.0		ug/L	50		110 70-140			
<i>Surrogate: Toluene-d8</i>	53.3		ug/L	50		107 70-140			
<b>LCS Dup (B511619-BSD1)</b>					Prepared & Analyzed: 09/10/15				
Benzene	<b>21.2</b>	0.50	ug/L	20		106 75-125	0.711	30	
Ethylbenzene	<b>21.6</b>	0.50	ug/L	20		108 75-125	0.232	30	
Methyl-tert-Butyl Ether (MTBE)	<b>27.0</b>	2.0	ug/L	20		135 75-125	3.77	30	**
Toluene	<b>20.4</b>	0.50	ug/L	20		102 75-125	3.65	30	
o-Xylene	<b>21.3</b>	0.50	ug/L	20		107 75-125	0.981	30	
m,p-Xylenes	<b>41.7</b>	1.0	ug/L	40		104 75-125	0.741	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	59.8		ug/L	50		120 70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.6		ug/L	50		115 70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50		107 70-140			
<b>Duplicate (B511619-DUP1)</b>	<b>Source: 5I09034-01</b> Prepared & Analyzed: 09/10/15								

**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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B511619 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B511619-DUP1) Continued Source: 5109034-01 Prepared &amp; Analyzed: 09/10/15</b>										
Benzene	0.940	0.50	ug/L		0.950			1.06	30	
Ethylbenzene	2.79	0.50	ug/L		3.31			17.0	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0				30	
Toluene	<0.50	0.50	ug/L		2.82				30	
o-Xylene	2.62	0.50	ug/L		3.00			13.5	30	
m,p-Xylenes	9.19	1.0	ug/L		10.9			17.3	30	
Surrogate: 4-Bromofluorobenzene	59.6		ug/L	50		119	70-140			
Surrogate: Dibromofluoromethane	57.8		ug/L	50		116	70-140			
Surrogate: Toluene-d8	55.2		ug/L	50		110	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B511002 - *** DEFAULT PREP ***</i>										
<b>Blank (B511002-BLK1) Prepared &amp; Analyzed: 09/10/15</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.5		ug/L	50		97.0	70-130			
<b>LCS (B511002-BS1) Prepared &amp; Analyzed: 09/10/15</b>										
Gasoline Range Organics (GRO)	439	20	ug/L	500		87.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.0		ug/L	50		92.0	70-130			
<b>LCS Dup (B511002-BSD1) Prepared &amp; Analyzed: 09/10/15</b>										
Gasoline Range Organics (GRO)	461	20	ug/L	500		92.2	75-125	4.87	30	
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50		94.0	70-130			
<b>Duplicate (B511002-DUP1) Source: 5109034-01 Prepared &amp; Analyzed: 09/10/15</b>										
Gasoline Range Organics (GRO)	756	20	ug/L		759			0.384	30	
Surrogate: a,a,a-Trifluorotoluene	49.8		ug/L	50		99.7	70-130			
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>										
<i>Batch B511002 - *** DEFAULT PREP ***</i>										
<b>Blank (B511002-BLK1) Prepared &amp; Analyzed: 09/10/15</b>										
GRO as Hexane	<20	20	ug/L							
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-001  
**Project Name:** DFSP Norwalk VES AQMD

**AA Project No:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>										
<i>Batch B511002 - *** DEFAULT PREP ***</i>										
<b>LCS (B511002-BS1)</b>				Prepared & Analyzed: 09/10/15						
GRO as Hexane	439	20	ug/L	500	87.8	75-125				
Surrogate: a,a,a-Trifluorotoluene	46.0		ug/L	50	92.0	70-130				
<b>LCS Dup (B511002-BSD1)</b>				Prepared & Analyzed: 09/10/15						
GRO as Hexane	461	20	ug/L	500	92.2	75-125	4.87	30		
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50	94.0	70-130				
<b>Duplicate (B511002-DUP1)</b>				Source: 5109034-01 Prepared & Analyzed: 09/10/15						
GRO as Hexane	756	20	ug/L		759			0.384	30	
Surrogate: a,a,a-Trifluorotoluene	49.8		ug/L	50	99.7	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:** A5331469  
**Date Received:** 09/09/15  
**Date Reported:** 09/17/15

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





9765 Eton Avenue  
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---

September 29, 2015

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001  
A5331484 / 5I23008**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/23/15 09:04 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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15

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

Influent	5I23008-01	Vapor	5	09/22/15 14:05	09/23/15 09:04
Effluent	5I23008-02	Vapor	5	09/22/15 14:03	09/23/15 09:04

**VOCs Gasoline Range Organics Vapor**

Influent	5I23008-01	Vapor	5	09/22/15 14:05	09/23/15 09:04
Effluent	5I23008-02	Vapor	5	09/22/15 14:03	09/23/15 09:04

**VOCs GRO Vapor as Hexane**

Influent	5I23008-01	Vapor	5	09/22/15 14:05	09/23/15 09:04
Effluent	5I23008-02	Vapor	5	09/22/15 14:03	09/23/15 09:04

**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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Influent****5I23008-01 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	<b>0.85</b>	ug/L	0.50	<b>0.27</b>	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>1.4</b>	ug/L	0.50	<b>0.37</b>	ppmv	0.13
o-Xylene	<b>3.1</b>	ug/L	0.50	<b>0.71</b>	ppmv	0.12
m,p-Xylenes	<b>2.5</b>	ug/L	1.0	<b>0.58</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

94.8 %  
111 %  
94.9 %

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

**AA Project No:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Effluent****5I23008-02 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
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

101 %  
111 %  
95.6 %

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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Influent****5I23008-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>600</b>	ug/L	20	<b>150</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		83.9 %			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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Effluent****5I23008-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.9 %			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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Influent****5I23008-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<b>600</b>	ug/L	20	<b>170</b>	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		83.9 %			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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15  
**Sampled:** 09/22/15  
**Prepared:** 09/23/15  
**Analyzed:** 09/23/15

**Effluent****5I23008-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		97.9 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15

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 B5I2305 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5I2305-BLK1)**

Prepared & Analyzed: 09/23/15

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	50.3		ug/L	50		101 70-140			
Surrogate: Dibromofluoromethane	53.7		ug/L	50		107 70-140			
Surrogate: Toluene-d8	48.0		ug/L	50		95.9 70-140			

**LCS (B5I2305-BS1)**

Prepared & Analyzed: 09/23/15

Benzene	23.5	0.50	ug/L	20		118 75-125			
Ethylbenzene	21.6	0.50	ug/L	20		108 75-125			
Methyl-tert-Butyl Ether (MTBE)	40.3	2.0	ug/L	40		101 75-125			
Toluene	22.7	0.50	ug/L	20		114 75-125			
o-Xylene	21.3	0.50	ug/L	20		106 75-125			
m,p-Xylenes	43.7	1.0	ug/L	40		109 75-125			

Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50		97.7 70-140			
Surrogate: Dibromofluoromethane	47.8		ug/L	50		95.7 70-140			
Surrogate: Toluene-d8	47.3		ug/L	50		94.5 70-140			

**LCS Dup (B5I2305-BSD1)**

Prepared: 09/23/15 Analyzed: 09/24/15

Benzene	24.3	0.50	ug/L	20		122 75-125	3.35	30	
Ethylbenzene	21.6	0.50	ug/L	20		108 75-125	0.139	30	
Methyl-tert-Butyl Ether (MTBE)	42.0	2.0	ug/L	40		105 75-125	4.11	30	
Toluene	22.2	0.50	ug/L	20		111 75-125	2.32	30	
o-Xylene	21.1	0.50	ug/L	20		105 75-125	0.992	30	
m,p-Xylenes	42.6	1.0	ug/L	40		107 75-125	2.46	30	

Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50		102 70-140			
Surrogate: Dibromofluoromethane	51.8		ug/L	50		104 70-140			
Surrogate: Toluene-d8	48.7		ug/L	50		97.3 70-140			

**Gasoline Range Organics in Vapor 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 VES AQMD

**AA Project No:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15

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

Batch B5I2316 - \*\*\* DEFAULT PREP \*\*\*

<b>Blank (B5I2316-BLK1)</b>				Prepared & Analyzed: 09/23/15						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.8		ug/L	50		97.7	70-130			
<b>LCS (B5I2316-BS1)</b>				Prepared & Analyzed: 09/23/15						
Gasoline Range Organics (GRO)	<b>428</b>	20	ug/L	500		85.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.1		ug/L	50		94.2	70-130			
<b>LCS Dup (B5I2316-BSD1)</b>				Prepared & Analyzed: 09/23/15						
Gasoline Range Organics (GRO)	<b>431</b>	20	ug/L	500		86.3	75-125	0.779	30	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.8	70-130			
<b>Duplicate (B5I2316-DUP1)</b>				Source: 5I23008-01 Prepared & Analyzed: 09/23/15						
Gasoline Range Organics (GRO)	<b>739</b>	20	ug/L		597			21.3	30	
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0	70-130			

**Gasoline Range Organics in Vapor as Hexane - Quality Control**

Batch B5I2316 - \*\*\* DEFAULT PREP \*\*\*

<b>Blank (B5I2316-BLK1)</b>				Prepared & Analyzed: 09/23/15						
GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.8		ug/L	50		97.7	70-130			
<b>LCS (B5I2316-BS1)</b>				Prepared & Analyzed: 09/23/15						
GRO as Hexane	<b>428</b>	20	ug/L	500		85.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.1		ug/L	50		94.2	70-130			
<b>LCS Dup (B5I2316-BSD1)</b>				Prepared & Analyzed: 09/23/15						
GRO as Hexane	<b>431</b>	20	ug/L	500		86.3	75-125	0.779	30	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.8	70-130			
<b>Duplicate (B5I2316-DUP1)</b>				Source: 5I23008-01 Prepared & Analyzed: 09/23/15						
GRO as Hexane	<b>739</b>	20	ug/L		597			21.3	30	
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0	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:** A5331484  
**Date Received:** 09/23/15  
**Date Reported:** 09/29/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager





9765 Eton Avenue  
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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  
A5331486 / 5I25012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/25/15 16:18 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:** A5331486  
**Date Received:** 09/25/15  
**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	5I25012-01	Vapor	5	09/25/15 12:10	09/25/15 16:18
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**VOCs Gasoline Range Organics Vapor**

Influent	5I25012-01	Vapor	5	09/25/15 12:10	09/25/15 16:18
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**VOCs GRO Vapor as Hexane**

Influent	5I25012-01	Vapor	5	09/25/15 12:10	09/25/15 16:18
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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 VES AQMD  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15  
**Sampled:** 09/25/15  
**Prepared:** 09/25/15  
**Analyzed:** 09/25/15

**Influent****5I25012-01 (Vapor)**

<b>Analyte</b>	<b>Result</b>	<b>(ug/L)</b>	<b>MRL</b>	<b>Result</b>	<b>(ppmv)</b>	<b>MRL</b>
Benzene	<b>1.3</b>	ug/L	0.50	<b>0.41</b>	ppmv	0.16
Ethylbenzene	<b>0.75</b>	ug/L	0.50	<b>0.17</b>	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<b>2.4</b>	ug/L	0.50	<b>0.64</b>	ppmv	0.13
o-Xylene	<b>3.2</b>	ug/L	0.50	<b>0.74</b>	ppmv	0.12
m,p-Xylenes	<b>3.7</b>	ug/L	1.0	<b>0.85</b>	ppmv	0.23

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

4-Bromofluorobenzene  
Dibromofluoromethane  
Toluene-d8

97.1 %  
115 %  
94.5 %

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:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15  
**Sampled:** 09/25/15  
**Prepared:** 09/25/15  
**Analyzed:** 09/25/15

**Influent****5I25012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>890</b>	ug/L	20	<b>220</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		101 %			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:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15  
**Sampled:** 09/25/15  
**Prepared:** 09/25/15  
**Analyzed:** 09/25/15

**Influent****5I25012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	890	ug/L	20	250	ppmv	5.7
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		101 %			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: A5331486  
Date Received: 09/25/15  
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 B5I2517 - \*\*\* DEFAULT PREP \*\*\*

##### Blank (B5I2517-BLK1)

Prepared & Analyzed: 09/25/15

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	50.9		ug/L	50	102	70-140
Surrogate: Dibromofluoromethane	55.8		ug/L	50	112	70-140
Surrogate: Toluene-d8	48.2		ug/L	50	96.5	70-140

##### LCS (B5I2517-BS1)

Prepared: 09/25/15 Analyzed: 09/26/15

Benzene	22.3	0.50	ug/L	20	111	75-125
Ethylbenzene	19.5	0.50	ug/L	20	97.6	75-125
Methyl-tert-Butyl Ether (MTBE)	44.7	2.0	ug/L	40	112	75-125
Toluene	20.6	0.50	ug/L	20	103	75-125
o-Xylene	18.8	0.50	ug/L	20	93.8	75-125
m,p-Xylenes	38.6	1.0	ug/L	40	96.4	75-125

Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50	104	70-140
Surrogate: Dibromofluoromethane	50.2		ug/L	50	100	70-140
Surrogate: Toluene-d8	46.6		ug/L	50	93.2	70-140

##### LCS Dup (B5I2517-BSD1)

Prepared & Analyzed: 09/25/15

Benzene	23.1	0.50	ug/L	20	116	75-125	3.70	30
Ethylbenzene	20.8	0.50	ug/L	20	104	75-125	6.49	30
Methyl-tert-Butyl Ether (MTBE)	41.9	2.0	ug/L	40	105	75-125	6.47	30
Toluene	21.2	0.50	ug/L	20	106	75-125	2.97	30
o-Xylene	20.8	0.50	ug/L	20	104	75-125	10.2	30
m,p-Xylenes	41.6	1.0	ug/L	40	104	75-125	7.66	30

Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50	101	70-140
Surrogate: Dibromofluoromethane	44.9		ug/L	50	89.9	70-140
Surrogate: Toluene-d8	42.7		ug/L	50	85.5	70-140

##### Duplicate (B5I2517-DUP1)

Source: 5I25007-04 Prepared: 09/25/15 Analyzed: 09/26/15

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:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15

Analyte	Result	Reporting 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 B5I2517 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B5I2517-DUP1) Continued** Source: 5I25007-04 Prepared: 09/25/15 Analyzed: 09/26/15

Benzene	<0.25	0.25	ug/L					30	
Ethylbenzene	<0.25	0.25	ug/L					30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L					30	
Toluene	<0.25	0.25	ug/L					30	
o-Xylene	<0.25	0.25	ug/L					30	
m,p-Xylenes	<0.50	0.50	ug/L					30	
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50		103 70-140			
Surrogate: Dibromofluoromethane	57.6		ug/L	50		115 70-140			
Surrogate: Toluene-d8	47.6		ug/L	50		95.3 70-140			

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

Batch B5I2519 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5I2519-BLK1)** Prepared & Analyzed: 09/25/15

Gasoline Range Organics (GRO)	<20	20	ug/L						
Surrogate: a,a,a-Trifluorotoluene	45.8		ug/L	50		91.5 70-130			

**LCS (B5I2519-BS1)** Prepared & Analyzed: 09/25/15

Gasoline Range Organics (GRO)	473	20	ug/L	500		94.7 75-125			
Surrogate: a,a,a-Trifluorotoluene	45.6		ug/L	50		91.2 70-130			

**LCS Dup (B5I2519-BSD1)** Prepared & Analyzed: 09/25/15

Gasoline Range Organics (GRO)	462	20	ug/L	500		92.3 75-125	2.50	30	
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/L	50		85.4 70-130			

**Duplicate (B5I2519-DUP1)** Source: 5I25006-01 Prepared & Analyzed: 09/25/15

Gasoline Range Organics (GRO)	4940	100	ug/L		5150			4.13	30
Surrogate: a,a,a-Trifluorotoluene	50.7		ug/L	50		101 70-130			

**Gasoline Range Organics in Vapor as Hexane - Quality Control**

Batch B5I2519 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B5I2519-BLK1)** Prepared & Analyzed: 09/25/15

GRO as Hexane	<20	20	ug/L						
Surrogate: a,a,a-Trifluorotoluene	45.8		ug/L	50		91.5 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:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor as Hexane - Quality Control</b>										
<i>Batch B5I2519 - *** DEFAULT PREP ***</i>										
<b>LCS (B5I2519-BS1)</b>				Prepared & Analyzed: 09/25/15						
GRO as Hexane	473	20	ug/L	500	94.7	75-125				
Surrogate: a,a,a-Trifluorotoluene	45.6		ug/L	50	91.2	70-130				
<b>LCS Dup (B5I2519-BSD1)</b>				Prepared & Analyzed: 09/25/15						
GRO as Hexane	462	20	ug/L	500	92.3	75-125	2.50	30		
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/L	50	85.4	70-130				
<b>Duplicate (B5I2519-DUP1)</b>				Source: 5I25006-01 Prepared & Analyzed: 09/25/15						
GRO as Hexane	4940	100	ug/L		5150			4.13	30	
Surrogate: a,a,a-Trifluorotoluene	50.7		ug/L	50	101	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:** A5331486  
**Date Received:** 09/25/15  
**Date Reported:** 10/15/15

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### Special Notes

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**Viorel Vasile**  
Operations Manager





STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

## UPLOADING A GEO\_REPORT FILE

**SUCCESS**

Your GEO\_REPORT file has been successfully submitted!

<b><u>Submittal Type:</u></b>	<b>GEO_REPORT</b>
<b><u>Report Title:</u></b>	<b>Remediation Status Report 3Q2015</b>
<b><u>Report Type:</u></b>	<b>Remedial Progress Report</b>
<b><u>Report Date:</u></b>	<b>10/27/2015</b>
<b><u>Facility Global ID:</u></b>	<b>SLT43185183</b>
<b><u>Facility Name:</u></b>	<b>Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP</b>
<b><u>File Name:</u></b>	<b>DFSP Norwalk Remediation Status Report_Q3-15.pdf</b>
<b><u>Organization Name:</u></b>	<b>The Source Group, Inc.</b>
<b><u>Username:</u></b>	<b>SIGNAL HILL</b>
<b><u>IP Address:</u></b>	<b>66.214.148.134</b>
<b><u>Submittal Date/Time:</u></b>	<b>10/28/2015 12:29:36 PM</b>
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