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RECEIVED

By Alameda County Environmental Health at 8:17 am, Feb 25, 2013

February 18, 2013

Mr. Mark Detterman, RG, CEG Senior Hazardous Materials Specialist Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: **Perjury Statement-***Soil, Groundwater and Sub-Slab Vapor Investigatio* ABF Freight System Facility (SLIC Case No. RO#0003033) 4575 Tidewater Avenue Oakland, California

Dear Mr. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge.

Sincerely,

Michael K. Rogers Director, Real Estate Arkansas Best Corporation



February 22, 2013 Project 154.004.008

Mr. Mark Detterman, RG, CEG Senior Hazardous Materials Specialist Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Soil, Groundwater and Sub-Slab Vapor Investigation Report ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

Dear Mr. Detterman:

This letter, prepared by Trinity Source Group, Inc. (Trinity) on behalf of ABF Freight System, Inc. (ABF), presents a *Soil, Groundwater and Sub-Slab Vapor Investigation Report (Report)* for the referenced site (Figures 1 and 2). This *Report* details the second phase of a two-phase investigation that was proposed in the *Soil and Groundwater Investigation Work Plan Addendum (Work Plan Addendum),* dated March 6, 2012. The results of the first phase of the investigation were presented in the *Soil, Groundwater and Sub-Slab Vapor Data Package (Data Package),* dated July 27, 2012. Based on the results of the first phase, Trinity completed this second phase scope of work. The second phase scope was approved by the Alameda County Environmental Health Department (ACEH) in an e-mail dated November 20, 2012. The ACEH approved a report extension in an e-mail dated January 14, 2012. Regulatory correspondence is included in Attachment A.

SCOPE OF WORK

On December 17, 2012, Trinity completed the second phase of work as described in the *Work Plan Addendum* and *Data Package*, with modifications established through discussions with ACEH. The second phase of work included the following activities:

- Drilling and sampling soils and groundwater at one additional soil boring (B-12).
- Drilling, sampling soils, and installing and sampling groundwater from two groundwater monitoring wells (MW-3 and MW-4) to delineate the extent of impacts.

• Conducting a second sampling event at sub-slab vapor Probes SVP-1 and SVP-2. Due to laboratory error and leaks detected in the sampling process, these probes were sampled multiple times to secure the second sampling event data.

Field procedures are presented in Attachment B. Figure 2 shows the locations of the soil borings, monitoring wells and sub-slab vapor probes at the site. Specific tasks performed to complete this scope of work are described below.

Prefield

Pre-field tasks included obtaining permits, marking borehole locations and calling in a USA ticket, preparing a site-specific health and safety plan and notifying inspectors and the property tenants. The permits are included in Attachment C.

Soil Boring and Drilling

On December 20, 2012, Borings B-12, MW-3 and MW-4 were drilled using a direct-push rig. Boring B-12 was advanced to a total depth of 12 feet below ground surface (bgs), where a grab-groundwater sample was collected. Wells MW-3 and MW-4 were advanced to a total depth of 12 feet.

The boreholes were continuously sampled by pushing an acetate sample liner in 4-foot intervals through the soil. The soils were logged using the Unified Soil Classification System (USCS) by Trinity staff. Samples were collected at 2-foot intervals and screened with a photoionization detector (PID). Selected samples were preserved in the liners and placed on ice with chain of custody documentation for transport to the laboratory. The soil boring and well locations are shown on Figure 2. Boring logs are included in Attachment D.

Well Installation

The boreholes for Wells MW-3 and MW-4 were overdrilled to a depth of 10 feet bgs, using hollow-stem augers replacing the direct-push equipment on the drill rig. The monitoring wells were installed with 2-inch diameter PVC casing and screened from 3.5 to 10 feet bgs with 0.020-inch slotted screen. A filter pack of #3 sand was placed around the well casing from the bottom to approximately 0.5 feet above the screen at a depth of 3 feet bgs. A foot of hydrated bentonite was placed in the well as a seal from approximately 2 to 3 feet bgs. The top two feet were sealed with Portland cement grout. The well was completed with a traffic-rated well vault and set flush with grade.

The well construction details for Wells MW-3 and MW-4 are included on the boring logs in Attachment D. Well Completion Reports for the groundwater monitoring wells are also included in Attachment D.

Well Development and Sampling

Monitoring Wells MW-3 and MW-4 were developed on January 4, 2013 by surging and purging. Wells MW-3 and MW-4 were sampled by Trinity on January 7, 2013. The wells were purged and sampled, and the samples were placed into laboratory-supplied containers. The samples were labeled, placed on ice,

and transported to the laboratory with chain-of-custody documentation. Depth-to-water measurements were taken in Wells MW-1 through MW-4 on February 8, 2013. Field data sheets for the well development, gauging and sampling are presented in Attachment E.

Surveying

Wells MW-1 through MW-4 were surveyed by a licensed land surveyor, Mid Coast Engineers, on January 9, 2013. The survey data was uploaded to Geotracker and the measured elevations were used to create groundwater contours. The survey data is shown in Attachment F.

Sub-Slab Vapor Probe Sampling

Sub-slab vapor Probes SVP-1 and SVP-2 were sampled on December 17, 2012. However, the laboratory failed to complete all of the required analyses, so the probes were re-sampled on January 17, 2013. Because the seal for the SVP-1 probe appeared to be loose, Trinity replaced the probe a short distance away, using a Vapor Pin[™]. The SVP-1 probe was successfully sampled and analyzed. The SVP-2 sample had an unacceptably high concentration of helium, the leak check compound; therefore, that sample was discarded. McCampbell Analytical, Inc. was used for these analyses.

Probe SVP-2 was re-sampled on February 5, 2013. Two Summa canisters were filled on that date, and both were analyzed by Torrent Laboratory, Inc. Trinity used 1,1-difluoroethane (1,1-DFE) as the leak check compound for these samples. The samples had very similar results, but one had 1,1-DFE reported at a concentration that was more than ten times the reporting limit. Therefore, the second sample analytical results are utilized for this report. Sub-slab sampling procedures are presented in Attachment B.

Laboratory Analysis

Two soil samples from each boring, for a total six soil samples, and one grab-groundwater sample from Boring B-12 were submitted under chain-of-custody to ESC Lab Sciences (ESC) of Mt. Juliet, Tennessee (NELAP#-1157CA) on December 17, 2012. Groundwater samples from Wells MW-3 and MW-4 were collected on January 7, 2013 and submitted under chain-of-custody to ESC.

All soil and groundwater samples were submitted with requests to analyze for:

- Total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd) with silica gel cleanup by EPA Method 8015.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX), by EPA Method 8260.
- Methyl tert-butyl ether (MTBE), tert-butanol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), ethylene dibromide (EDB), ethylene dichloride (EDC), and naphthalene by EPA Method 8260.

Additionally, groundwater samples from Wells MW-3 and MW-4 were analyzed for:

- TPH as Oil and Grease with silica gel cleanup by EPA Method 8015.
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C SIM.

Sub-slab vapor samples were submitted under chain-of-custody protocol to McCampbell Analytical, Incorporated, of Pittsburg, California (ELAP #1644) or Torrent Laboratory, Inc. of Milpitas, California (ELAP# 1991). These samples were analyzed for the following:

- TPHg and VOCs by EPA Method TO-15 with low detection limits requested.
- Naphthalene was analyzed by EPA Method TO-17 on samples collected via sorbent tubes.
- Helium (the leak test compound for December 2012 and January 2013 sample events) was analyzed by Method ASTM-1946D, along with, oxygen, methane and carbon dioxide.
- 1,1-DFE was used for leak detection for the sub-slab vapor sampling on February 5, 2013, and was analyzed by EPA Method TO-15.

Certified analytical reports, chain-of-custody documents, and GeoTracker upload confirmations are included in Attachment G.

INVESTIGATION-DERIVED WASTES DISPOSAL

Investigation-derived wastes including soil cuttings and well development and purge water were placed into appropriate 55-gallon drums, labeled and stored onsite. Belshire Environmental Services, Inc. picked up the drums for proper disposal. The transporter-executed disposal documents are included in Attachment H. The final documentation showing disposal site receipt will be submitted with a future groundwater monitoring report.

RESULTS

Hydrogeologic Conditions

Soils encountered during drilling consisted primarily of clays with organics, layered with sandy clays and fine grained sands to the total depth explored of approximately 12 feet bgs. Groundwater was encountered at approximately 8 to 9 feet bgs, and rose to approximately 2 to 5 feet bgs after drilling.

The well depths and depth to groundwater were measured in the four site monitoring wells on February 8, 2013. The total depths of Wells MW-1 through MW-4 range from 9.75 feet bgs in MW-3 to 18.20 feet bgs in MW-1; the screen intervals and well construction details for Wells MW-1 and MW-2 are unknown. A groundwater contour map showing the calculated groundwater flow direction is presented in Figure 3. These groundwater contours utilize all four wells, although the groundwater levels may not correlate to one another, due to the differences in well depths and construction. In particular, Well MW-1 is approximately 8 feet deeper than Wells MW-3 and MW-4, and approximately 4 feet deeper than Well MW-2. The water level in Well MW-1 is lower than the other three wells, with the result that the groundwater contours appear to converge on Well MW-1. Utilizing all four wells, the flow direction is

generally to the south and southeast at gradients between 0.010 feet/feet to 0.038 ft/ft. The general groundwater flow direction appears to be southerly, if Well MW-1 data is not included.

Soil, Groundwater and Soil Gas Analytical Results

The soil, groundwater and soil gas results were reviewed and compared to the San Francisco Bay Regional Water Quality Control Board (SFB-RWQCB) Environmental Screening Levels (ESLs)¹ as a preliminary risk screen. Concentrations exceeding ESLs may warrant further evaluation, based on site-specific considerations.

Soil Analytical Data

The soil analytical data described below is presented in Table 1, and TPHg, TPHd, and benzene analytical results are summarized on Figure 4.

- TPHg was detected in two soil samples at concentrations of 0.28 milligrams per kilogram (mg/kg) in Boring B-12 at 3 feet and 41 mg/kg in MW-4 at 10 feet.
- TPHd was reported in three soil samples ranging from 5.4 mg/kg in MW-4 at 3 feet to 48 mg/kg in MW-4 at 10 feet.
- Naphthalene was detected in one sample at a concentration of 0.50 mg/kg in MW-4 at 10 feet.
- All reported detections were below ESLs for non-drinking water, commercial property use in shallow and deep soils.

Grab-Groundwater Analytical Data

One grab-groundwater sample was collected from Boring B-12. The grab-groundwater analytical data described below is presented in Table 2.

- TPHg was detected at a concentration of 44 micrograms per liter (µg/L).
- TPHd was detected at a concentration of 440 µg/L in Boring B-12.
- Ethylbenzene and total xylenes were detected in Boring B-12 at concentrations of 0.63 μg/L and 1.9 μg/L, respectively.
- Naphthalene was detected at a concentration of 11 µg/L.
- All reported detections were below ESLs for non-drinking water, commercial property use.

¹ Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (November 2007), San Francisco Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml, Updated February 2013.

Groundwater Analytical Data

Two groundwater monitoring samples were collected from Wells MW-3 and MW-4. The groundwater analytical data is presented in Table 3. TPHg, TPHd and benzene concentrations from multiple sample dates are summarized on Table 4.

- TPHg was detected in MW-3 only at a concentration of 43 µg/L.
- TPHd was detected at a concentration of 300 µg/L in Well MW-3 and 540 µg/L in Well MW-4.
- Benzene, toluene, ethylbenzene and total xylenes were not detected in Wells MW-3 and MW-4.
- MTBE was detected at 2.1 µg/L in Well MW-4.
- Naphthalene was detected at 4.3 µg/L in Well MW-3 and at 1.3 µg/L in Well MW-4.
- Various PAHs were detected at low concentrations that did not exceed ESLs.
- No ESLs were exceeded.

Sub-Slab Vapor Analytical Data

The sub-slab vapor analytical data described below is presented in Table 4.

- TPHg was detected in Probe SVP-1 at a concentration of 1,300 μg/m³. The duplicate sample for Probe SVP-2 had TPHg reported at a concentration of 450 μg/m³, but the laboratory noted that the detection was attributed to a single discrete peak of tetrachloroethene (PCE).
- PCE was detected in Probe SVP-1 at a concentration of 16 μg/m³ and in Probe SVP-2 at a concentration of 901 μg/m³.
- Benzene was detected in Probe SVP-2 at a concentration of 0.03 μg/m³.
- Ethylbenzene was detected in Probe SVP-1 at a concentration of 9.6 μg/m³.
- Total xylenes were detected in Probe SVP-1 at a concentration of 77 μg/m³ and in Probe SVP-2 at a concentration of 0.04 μg/m³.
- Acetone was detected in Probe SVP-1 at a concentration of 340 μg/m³ and in Probe SVP-2 at a concentration of 20.4 μg/m³.
- Naphthalene was detected in SVP-1 at a concentration of 2.1 µg/m³.
- Various other VOCs were detected at very low concentrations, none of which exceeded ESLs. The certified analytical report in Attachment G lists all of the detections.
- All reported detections were below ESLs for attenuated indoor air except for PCE in Probe SVP-2. The attenuated indoor air ESL for PCE is 42 μg/m³.

Data Evaluation and Recommendations

The soil analytical data results indicate complete delineation of soils to non-detectable or low TPHd concentrations. TPHg, benzene, and all other analytes from soil samples were non-detect except for a low detection of naphthalene. The maximum concentrations detected during the two phases of investigation were from the former UST area (Boring B-4), as shown on Figure 4. No further soils assessment is recommended at this time.

The results of the grab-groundwater sample from Boring B-12 and groundwater samples from Wells MW-3 and MW-4 generally delineate the groundwater plume upgradient to the north (MW-4), downgradient to the south (MW-3) and laterally to the east (B-12). Figure 5 summarizes recent groundwater analytical data, combining the sampling events for Wells MW-1 through MW-4, and grab-groundwater sampling of the various borings drilled in May 2012 and December 2012. TPHg in groundwater was at low to non-detectable concentration in all samples collected. In the samples farthest out from the former UST area (MW-2, MW-3, B-12, B-9 and MW-4), TPHd was detected at concentrations less than the ESL of 640 µg/L. Trinity recommends conducting quarterly groundwater monitoring in all four wells through 2013 (three additional events), to determine plume stability. Trinity recommends analyzing TPHg, TPHd, and BTEX for these additional monitoring events.

The sub-slab vapor data indicated only PCE in Probe SVP-2 is present at concentrations above the ESL, utilizing indoor air ESLs attenuated by 0.05, as specified by the California Department of Toxic Substances Control (DTSC). Reviewing the two data sets for these probes, Trinity concludes that the potential vapor intrusion threat is low, considering the building use as a truck maintenance facility. The building is well-ventilated, and the roll-up doors on opposite ends of the building generally remain open while the building is occupied. Further sub-slab vapor assessment is not recommended at this time.

This site should be considered for low-threat closure, if the groundwater monitoring results demonstrate a stable or shrinking plume.

Mr. Mark Detterman, RG, CEG Soil, Groundwater and Soil Vapor Investigation Report ABF Freight System Facility February 22, 2013

Should you have any questions regarding this letter, please call Trinity at (831) 426-5600.

Sincerely,

TRINITY SOURCE GROUP, INC.

Information, conclusions, and recommendations made by Trinity in this document regarding this site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.



Debra J. Moser, PG, CEG, CHG Senior Geologist

Cora E. Olson Senior Staff Engineer

Attachments:

Table 1:	Soil Analytical Data
Table 2:	Grab-Groundwater Analytical Data
Table 3:	Groundwater Analytical Data
Table 4:	Sub-Slab Vapor Analytical Data
Figure 1:	Site Location Map
Figure 2:	Soil Boring, Sub-Slab Vapor Prove and Monitoring Well Location Map
Figure 3:	Groundwater Elevation Contour Map, February 8, 2013
Figure 4:	Soil Analytical Data Map
Figure 5:	Groundwater Analytical Data Summary Map, Various Dates
Attachment A:	Regulatory Correspondence
Attachment B:	Permits
Attachment C:	Field Procedures
Attachment D:	Boring Logs and Well Completion Reports
Attachment E:	Field Data Sheets
Attachment F:	Survey Data
Attachment G:	Certified Analytical Reports, Chain of Custody and Geotracker Upload Confirmation
Attachment H:	Waste Disposal Documentation

Mr. Mark Detterman, RG, CEG Soil, Groundwater and Soil Vapor Investigation Report ABF Freight System Facility February 22, 2013

DISTRIBUTION

A copy of this report has been forwarded to:

Mr. Mike Rogers ABF Freight System, Inc. 3801 Old Greenwood Road Fort Smith, AR 72903

Leroy Griffin Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341 Oakland, CA 94612-2032 (sent via email to Igriffin@oaklandnet.com)

TABLES

Table 1 Soil Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

Sample ID#	Sample Date	Sample Depth (ft)	TPHg (mg/kg)	Diesel C10-C22 (mg/kg)	Range Org C22-C32 (mg/kg)	ganics* C32-C40 (mg/kg)	Total TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (Total) (mg/kg)	Naphthalene (mg/kg)	Other VOCs (mg/kg)	PAHs (mg/kg)
Soil Borings - M	ay 2012													
B-1	5/22/2012	4	<0.60	5.6 ^d	<4.8	<4.8	5.6	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA
B-1	5/22/2012	14	<0.93	15	13	<7.4	28	<0.0093	<0.046	<0.0093	<0.028	<0.046	ND	NA
				_					-				·	
B-2	5/21/2012	5	<0.60	11 ^{c,d}	5.1 ^e	<4.8	16.1	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA
B-2	5/21/2012	15	<1.0	14 ^d	14 ^e	<8.1	28	<0.010	<0.050	<0.010	<0.030	<0.050	ND	NA
				_					-					
B-3	5/22/2012	9	6.0	71	14	2.2 ^a	87.2	<0.0059	<0.030	<0.0059	<0.018	<0.030	n-Propylbenzene = 0.0022 ^a	NA
B-3	5/22/2012	15	<0.99	4.2 ^a	<8.0	<8.0	4.2	<0.0099	0.0034 ^a	<0.0099	<0.030	<0.050	ND	NA
B-3	5/22/2012	19	<0.84	3.0 ^a	<6.7	<6.7	3.0	<0.0084	<0.042	<0.0084	<0.025	<0.042	ND	NA
B-4	5/21/2012	4	<0.62	180	340	140	660	<0.0062	<0.031	<0.0062	<0.018	<0.031	ND	NA
B-4	5/21/2012	12	<0.72	23 ^d	2.4 ^a	<5.8	25.4	<0.0072	<0.036	0.017	0.0034 ^a	0.0052 ^a	Isopropylbenzene = 0.0024 ^a	NA
B-4	5/21/2012	15	<1.0	16 ^d	14 ^e	<8.0	30	<0.010	<0.050	<0.010	<0.030	0.0076 ^a	n-Propylbenzene = 0.0034 ^a	NA
B-4	5/21/2012	25	<0.60	3.0 ^a	<4.8	<4.8	3.0	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA
			-		-				-					
B-5	5/21/2012	10	<0.94	4.1 ^a	<7.5	3.7 ^a	7.8	<0.0094	<0.047	<0.0094	<0.028	<0.047	ND	NA
			-		-				-					
B-6	5/21/2012	9	<3.6	<5.8 ^{af}	<5.8 ^f	<5.8 ^f	<5.8	<0.0073	<0.036	<0.0073	<0.022	<0.036 (EPA Method 8270C) 0.0079 (EPA Method 8260B)	ND	Benzo(a)anthracene = 0.0022, Benzo (a) pyrene = 0.0012, Fluoranthene = 0.0030, Fluorene = 0.0013, Phenanthrene = 0.0033, Pyrene = 0.0032, 1-Methylnaphthalene = 0.0026, 2-Methylnaphthalene = 0.0035 "a" note on all of the above
B-6	5/21/2012	17	<4.6	2.8 ^f	<7.4 ^f	<7.4 [†]	2.8	<0.0092	<0.046	<0.0092	<0.028	<0.046 (EPA Method 8270C) 0.0040 (EPA Method 8260B)	ND	Anthracene = 0.0017, Phenanthrene = 0.0044, Pyrene = 0.0020, 2-Methylnaphthalene = 0.0024 "a" note on all of the above

Table 1 Soil Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

Sample ID#	Sample Date	Sample Depth (ft)	TPHg (mg/kg)	Diesel C10-C22 (mg/kg)	Range Org C22-C32 (mg/kg)	ganics* C32-C40 (mg/kg)	Total TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (Total) (mg/kg)	Naphthalene (mg/kg)	Other VOCs (mg/kg)	PAHs (mg/kg)
			<u> </u>			<u> </u>								
B-7	5/21/2012	12	<0.66	5.5	<5.2	<5.2	5.5	<0.0066	<0.033	<0.0066	<0.020	<0.033	2-Butanone = 0.025^{a} , tert-Butyl alcohol = 0.094	NA
B-7	5/21/2012	15	<0.99	10 ^d	<7.9	<7.9	10	<0.0099	<0.050	<0.0099	<0.030	<0.050		NA
			-			-			-				· · ·	
B-8	5/21/2012	10	<0.85	5.3 ^a	<6.8	<6.8	5.3	<0.0085	<0.042	<0.0085	<0.026	<0.042	ND	NA
B-8	5/21/2012	15	<0.96	6.9 ^{a,d}	4.0 ^a	<7.7	10.9	<0.0096	<0.048	<0.0096	<0.029	<0.048	ND	NA
	• •												· ·	
B-9	5/22/2012	7	<0.74	25	6.4	<5.9	31.4	<0.0074	<0.037	<0.0074	<0.022	<0.037	2-Butanone = 0.034 ^a	NA
B-9	5/22/2012	15	<0.98	2.5 ^a	<7.8	<7.8	2.5	<0.0098	0.0041 ^a	<0.0098	0.010 ^a	<0.049	ND	NA
	•			•										
B-10	5/21/2012	4	<0.60	11 ^d	3.3 ^a	<4.8	14.3	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA
B-10	5/21/2012	15	<0.92	4.8 ^a	<7.3	<7.3	4.8	<0.0092	<0.046	<0.0092	<0.027	<0.046	2-Butanone = 0.033 ^a	NA
	• •												· ·	
B-11	5/22/2012	8	<0.68	3.3 ^a	<5.5	<5.5	3.3	<0.0068	<0.034	<0.0068	<0.020	<0.034	ND	NA
B-11	5/22/2012	15	<0.96	5.4 ^a	<7.7	<7.7	5.4	<0.0096	<0.048	<0.0096	<0.29	<0.048	ND	NA
Soil Boring and	Monitoring W	ell Installatio	on - Decen	nber 2012									· · ·	
B-12	12/17/2012	3	0.28 ^a	<23 ^f	NA	NA	<23 ^f	<0.0058	<0.029	<0.0058	<0.017	<0.029	ND**	NA
B-12	12/17/2012	6	<0.69	<1,100 ^f	NA	NA	<1,100 ^f	<0.0069	<0.034	<0.0069	<0.021	<0.034	ND**	NA
			-		-				-				· · ·	
MW-3	12/17/2012	3	<0.59	<24 ^f	NA	NA	<24 ^f	<0.0059	<0.030	<0.0059	<0.018	<0.030	ND**	NA
MW-3	12/17/2012	7	<0.62	8.1	NA	NA	8.1	<0.0062	<0.031	<0.0062	<0.019	<0.031	ND**	NA
	• •												· ·	
MW-4	12/17/2012	3	<0.58	5.4 ^a	NA	NA	5.4 ^a	<0.0058	<0.029	<0.0058	<0.018	<0.029	ND**	NA
MW-4	12/17/2012	10	41	48	NA	NA	48	<0.13	<0.65	<0.13	<0.39	0.50 ^ª	ND**	NA
<u>.</u>	<u> </u>		<u>.</u>	-	-	-			•	-				
		SFRWQCB ESLs (mg/kg) Non Drinking Water Source Commercial Property Use - Shallow Soils												

	SF	RWQCB ESLs (m	g/kg) Non Drinl	king Water S	Source Commercial Property Use	SFRWQCB ESLs (mg/kg) Non Drinking Water Source Commercial Property Use - Shallow Soils								
420	500	1.2 9.	3 4.7	11	4.8									
	S	FRWQCB ESLs (r	ng/kg) Non Drii	nking Water	Source Commercial Property Us	se - Deep Soils								
420	530	1.2 9.	3 4.7	11	4.8									

Table 1 Soil Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

									,				
Samplo	Samplo	Sample	трца	Diesel	Range Or	ganics*	Total	Bonzono	Toluono	Ethyl-	Xylenes (Total)	Nanhthalono	0
ID#	Date	(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	0
 Notes:													
* =	Silica gel clea	anup was coi	mpleted on	diesel-rang	ge organics	s analysis							
** =	Additional VC	Cs analyzed	d included N	/ITBE, di-is	opropyl eth	ner, ethano	l, ethyl tert-	butyl ether, t	ert-butyl alc	ohol, tert-a	myl methyl	ether, 1,2-dibromoethane and 1	,2-dichloroe
MTBE =	Methyl Tertia	ry-Butyl Ethe	er										
TPH =	Total Petrole	um Hydrocar	bons										
Elev. =	elevation												
ft =	feet												
< =	less than indi	cated detect	ion level										
mg/kg =	milligrams pe	r kilogram											
ND =	Not Detected												
NA =	Not Analyzed	1											
TPHg =	Total Petrole	um Hydrocar	rbons - Gas	oline									
TPHd =	Total Petrole	um Hydrocar	rbons - Dies	sel									
VOC =	Volatile Orga	nic Compour	nd										
PAH =	Poly-Aromati	c Hydrocarbo	ons										
a =	The lab noted	d, estimated	value belov	the lower	calibration	point. Cor	nfidence co	rrelates with	concentrati	on.			
b =	The lab noted	d, surrogate	recovery lin	nits have be	en exceed	ded; values	are outside	e lower contr	ol limits.				
C =	The lab noted	d, the sample	e matrix inte	erfered with	the ability	to make ar	ny accurate	dterminatior	n; spike valu	ie is low.			
d =	The lab noted	d, this sample	e has respo	nded in the	e Diesel rar	nge, howev	er it does r	ot appear to	be hydroca	arbon produ	ct.		
e =	The lab noted	d, this sample	e has respo	nded in the	e Oil range	, however i	t does not a	appear to be	a hydrocart	oon product			
t =	The lab noted	d, sample dil	uted due to	matrix inte	rferences t	hat impaire	ed the ability	y to make an	accurate a	nalytical de	termination	. The detection limit is elevated	I in order to r
ESL =	Environmenta	al Screening	Level									, , , , , , , , , , , , , , , , , , , ,	
SFBRWQCB =	 San Francisc 	o Bay Regio	nal Water C	Quality Con	trol Board,	California	EPA, http://	www.waterb	oards.ca.go	v/rwqcb2/w	/ater_issues	s/programs/esl.shtml (February	2013)

Other VOCs	PAHs
(mg/kg)	(mg/kg)

ethane

reflect the necessary dilution.

Table 2 Grab-Groundwater Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

			Diesel	Range Org	ganics*	Total			Ethyl-	Xylenes			
Sample	Sample Date	TPHg (ug/L)	C10-C22	C22-C32	C32-C40	TPHd (ug/L)	Benzene	Toluene	benzene	(Total)	MTBE	Naphthalene	Other VOCs
10#	Date	(µg/Ľ)	(µg/⊏)	(µg/⊏)	(µg/⊏)	(µ9/⊏)	(µg/⊏)	(µg/⊏)	(µg/⊏)	(µg/⊏)		(µg, ∟)	(49/2)
B-2	5/21/2012	<100	76	<100	<100	76	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND
В-3	5/22/2012	490	1,000	71 ^a	60 ^a	1,131	0.99 ^a	<5.0	<1.0	<3.0	<1.0	13	Acetone = 24, n-Butylbenzene = 3.7, sec-Butylbenzene = 1.3, tert-Butylbenzene = 5.4, Carbon disulfide = 0.36, n-Propylbenzene = 6.0
B-4	5/21/2012	230	600	<100	<100	600	0.97	0.31ª	0.51	<3.0	<1.0	7.6	n-Butylbenzene = 0.48, sec-Butylbenzene = 0.35, tert-Butylbenzene = 1.1, n - Propylbenzene = 2.2, 1,2,4-Trimethylbenzene = 0.61
B-6	5/21/2012	<100	140	<100	<100	140	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND
B-8	5/21/2012	120	1400	100	<100	1,500	<1.0	<5.0	<1.0	<3.0	3.1	1.6	Acetone = 29, sec-Butylbenzene = 0.73 tert-Butylbenzene = 0.82
B-9	5/22/2012	<100	180 ⁶	<100	<100	180	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	Acetone = 30
B-10	5/22/2012	59 ^a	2,300 ^b	100	<100	2,400	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	tert-Butylbenzene = 1.0, n-Propylbenzene = 0.42
B-11	5/22/2012	<100	660 ^b	<100	<100	660	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND
B-12	12/17/2012	44 ^a	440	NA	NA	440	<1.0	<5.0	0.63 ^a	1.9 ^ª	<1.0	11	ND**

Notes:

* = Silica gel cleanup was completed on diesel-range organics analysis

** = Additional VOCs analyzed included MTBE, di-isopropyl ether, ethanol, ethyl tert-butyl ether, tert-butyl alcohol, tert-amyl methyl ether, 1,2-dibromoethane and 1,2-dichloroethane <= less than indicated reported detection limit

130

SFRWQCB ESLs (µg/L) Non Drinking Water Source Commercial Property Use

100

1,800

24

43

 $\mu g/L$ = micrograms per Liter ($\mu g/L$), also equivalent to parts per billion (ppb)

ND = Not Detected

NA = Not Analyzed

TPHg = Total Petroleum Hydrocarbons - Gasoline

640

TPHd = Total Petroleum Hydrocarbons - Diesel

MTBE = Methyl Tertiary-Butyl Ether

VOCs = Volatile Organic Compounds

a = Estimated value below the lowest calibration point. Confidence correlates with concetration

b = This sample has responded in the Diesel range, however it does not appear to be a hydrocarbon product

640

ESL = Environmental Screening Level

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml (February 2013)

46

Table 3 Groundwater Analytical Data

ABF Freight System, Inc. 4575 Tidewater Avenue Oakland, California

· · · · · · · · · · · · · · · · · · ·					EPA Method												
					1664A	8015D/G		3511/	80				Vola	tile Organic	s: 8260B		
Sample ID	Sample Date	TOC Well Elevation (feet, MSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH Oil & Grease (μg/L)	TPHg (μg/L)	TPHd without silica gel cleanup (μg/L)	TPHmo without silica gel cleanup (µg/L)	TPHd with silica gel cleanup (μg/L)	TPHmo with silica gel cleanup (μg/L)	Acetone (μg/L)	Benzene (µg/L)	Ethyl- benzene (μg/L)	Naph- thalene (μg/L)	Toluene (μg/L)	Total Xylenes (μg/L)	Other Detections
MW-1	9/15/1986 ^a		NA		NA	4,520	NA	NA	NA	NA	NA	1,590	NA	NA	12	1,000	
	10/17/11	11.12	4.56	6.56	<1,300	660	6,680	110	4,520	33	8.4	11	0.93	56	1.1	3.3	Α
	2/8/13	11.12	4.22	6.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-2	9/15/1986ª 10/17/11 2/8/13	11.17 11.17	NA 3.87 3.67	7.30 7.50	NA 1,700 NS	<50 <40 NS	NA 730 NS	NA 64 NS	NA 600 NS	NA 69 NS	NA 11 NS	9 <0.10 NS	NA <0.11 NS	NA 1.0 NS	<1 <0.15 NS	<1 <0.50 NS	none
MW-3	1/7/13 2/8/13	10.96 10.96	3.68 3.98	7.28 6.98	<10,000 NS	43 NS	NA NS	NA NS	300 NS	NA NS	NA NS	<1.0 NS	<1.0 NS	NA NS	<5.0 NS	<3.0 NS	none
MW-4	1/7/13 2/8/13	11.60 11.60	3.91 3.31 ESL	7.69 8.29	<10,000 NS 640	<100 NS 500	NA NS 640	NA NS 640	540 NS 640	NA NS 640	NA NS 1,500	<1.0 NS 46	<1.0 NS 43	NA NS 24	<5.0 NS 130	<3.0 NS 100	MTBE = 2.1
			(Industrial Land	Use, Non-Drinking	Water Source	e)											

							Polynuclear	Aromatic H	ydrocarbons - E	EPA METHO	D 8270C			
Sample ID	Sample Date	Depth to Groundwater (ft)	Acenaph- thene (μg/L)	Acenaph- thylene (µg/L)	Benzo (a) anthracene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)	1-Methyl napthalene (µg/L)	2-Methyl napthalene (µg/L)	Phenan- threne (µg/L)	Pyrene (µg/L)	Other Detections
MW-1	10/17/11	4.56	0.69	0.20	ND	0.056	0.049	1.5	31	13	13	0.29	0.041	none
MW-2	10/17/11	3.87	0.097	<0.011	ND	<0.013	<0.016	0.022	0.57	0.096	0.088	<0.018	0.021	none
MW-3	1/7/13	3.68	0.18	<0.25	0.092	<0.25	<0.25	0.32	4.3	2.2	1.2	0.12	<0.25	none
MW-4	1/7/13	3.91	0.37	<0.25	0.095	<0.25	<0.25	0.26	1.2	2.1	0.76	0.098	<0.25	none
		ESL (Industrial Land I	23 Use, Non-Drinking	30 g Water Sourc	0.027 e)	0.73	8.0	3.9	24	NLE	2.1	4.6	2.0	

Table 3 Groundwater Analytical Data

ABF Freight System, Inc. 4575 Tidewater Avenue Oakland, California

_						EPA Method											
					1664A	8015D/G		3511/8	30				Vola	tile Organio	cs: 8260B		
Sample ID	Sample Date	TOC Well Elevation (feet, MSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH Oil & Grease (µg/L)	TPHg (μg/L)	TPHd without silica gel cleanup (µg/L)	TPHmo without silica gel cleanup (µg/L)	TPHd with silica gel cleanup (μg/L)	TPHmo with silica gel cleanup (μg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethyl- benzene (μg/L)	Naph- thalene (μg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	Other Detections
Notes:																	
Note:	Please refer	ence lab report	for all qualifers a	nd notes.													
ID =	Identification	ı															
TOC =	DC = top of casing																
MSL =	MSL = mean sea level																
EPA =	Environmen	al Protection A	gency														
TPHg =	Total Petrole	um Hydrocarbo	ons, gasoline-ran	ge organics													

TPHd = Total Petroleum Hydrocarbons, diesel-range organics (sum of C10-C22 and C22-C32 hydrocarbons)

TPHmo = Total Petroleum Hydrocarbons, motor-oil range organics (C32-C40 hydrocarbons)

MTBE = methyl-tert-butyl-ether

ESL = Environmental Screening Level (ESL) listed in Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (November 2007), San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml, updated February 2013

MW = Monitoring Well

µg/L micrograms per liter (equivalent to parts per billion)

< = not detected at above detection limit

MDL = Minimum detection limit

TPH = Total petroleum hydrocarbons

A = The following analytes were detected above MDL: n-Butylbenzene 2.6 µg/L, sec-Butylbenzene 1.9 µg/L, tert-Butylbenzene 14 µg/L, n-Hexane 7.9 µg/L, lsopropylbenzene 11 µg/L, n-Propylbenzene 21 µg/L,

and 1,2,3-trimethylbenzene 1.2 µg/L

NLE = No level established

a = Data reported in Weston report dated February 25, 1987; analysis by EPA Methods 5020/8015/8020; Weston report listed "Motor Fuel" analysis which Trinity is reporting under TPHg

b = Estimated value below the lowest calibration point. Confidence correlates with concentration.

c = The sample matrix interfered with the ability to make any accurate determination; spike value is high

Table 4 Sub-Slab Vapor Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

										Ai	nalytical Tes	t Methods						
			ASTM D	-1946						EPA T	0-15						EPA TO)-17
Sample ID	Sample Date	Carbon Dioxide (%)	Methane (%)	Oxygen (%)	Helium (%)	PCE (µg/m ³)	1,1,2-TCA (µg/m ³)	1,2,4 - TMB (µg/m3)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl Benzene (µg/m³)	Ethyl Acetate (µg/m ³)	Total Xylenes (µg/m³)	Ethanol (μg/m³)	Other VOCs (µg/m³)	Naphthalene (µg/m ³)	TPHd (µg/m3)
SVP-1 SVP-1 SVP-1	6/20/2012 12/17/2012 1/17/2013	2.2 0.8	<0.0001 <0.0002	16 20	0.049 8.0 0.23	60 NA 16	<11 NA <11	<10 NA <10	<1,800 NA 1,300	<2.8 NA <6.5	<7.7 NA <7.7	<8.8 NA 9.6	20 NA 33	<27 NA 77	180 NA 290	ND Acetone, 340	<2.0 <0.6 2.0	<125
SVP-2 SVP-2 SVP-2 SVP-2	6/20/2012 12/17/2012 1/17/2013 2/5/2013	0.22	0.00018	18 17.1	<0.005 1.1 40 NA	530 NA NA 901	38 NA NA <0.03	13 NA NA 0.02	1,900 NA NA NA	2.9 NA NA 0.03	11 NA NA 0.02	20 NA NA <0.02	19 NA NA <0.02	160 NA NA 0.04	100 NA NA NA	Acetone, 230 Acetone, 20.4 1,1-DFE, 12.5 (leak check) Others as listed on Certified Analytical Report	3.4 <0.6	<125
SVP-2 (QC Sample)	2/5/2013	1.22	<0.001	17.3	NA	971	<0.03	0.064	450*	0.15	0.21	<0.02	<0.02	0	NA	Acetone, 67.1 1,1-DFE, 426 (leak check) Others as listed on Certified Analytical Report		
		Atte	ESLs for Co enuated Co	ommercial mmercial I	Indoor Air ndoor Air ^a	2.1 42	0.77 15.4	NA NA	3,100 62,000	0.42 8.4	1,300 26,000	4.9 98	NA NA	440 8800	NA NA	NA NA	0.36 7.2	
Notes: ID = % = µg/m ³ = PCE = ,2 - TCA = 4 - TMB =	Identification Percentage micrograms p Tetracholoroo 1,1,2 - Trichlo 1,2,4 - Trimet	per meter cu ethene proethane hylbenzene	ibed															

TPHg = Total Petroleum Hydrcarbongs as Gasoline

1,1-DFE = 1,1-Difluoroethane

ASTM = American Society for Testing Materials

Table 4 Sub-Slab Vapor Analytical Data

ABF Freight System Facility 4575 Tidewater Avenue Oakland, California

< = Not detected at or above detection limit</p>
ND = Not detected
NA = Not applicable
Bold = data detected above laboratory detection limits
* Duplicate sampled was analyzed for TPHg; result of 450 (µg/m³) was attributed to single discrete peak (PCE).
ESLs = Environmental Screening Levels (February 2013)
RWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA
<u>http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml (February 2013)</u>
a = Attenuation factor for existing commercial building sub-slab from the DTSC-CEPA Vapor Intrusion Guidance (2011) is 0.05

FIGURES



REF. 154_001\154.004.001 fig1.dwg

EXPLANATION

\sim	Creeks	
~	Former creeks, buried or or shoreline, circa 1850	drained, and Bay
	Underground culverts and	d storm drains
	Engineered channels	
	Willow groves, circa 1850	
$\begin{array}{c} a & b \\ a & b \\$	Beach, circa 1850	
- <u>11/2</u>	Tidal marsh, circa 1850	
	now water	
	now fill land	
	Вау	
	Bay, circa 1850, now fill land	
	Artificial bodies of water	
	Present watersheds	
	AP O	PROX. SCALE IN FEET
		PROJECT: 154.004.008
		FIGURE:
		1



REF. 154_001\154.004.008 fig2.dwg



REF. 154_001\154.004.008 fig2.dwg







Soil Boring

MW-2 + Existing Monitoring Well

MW-4 ----- New Monitoring Well

New Soil Boring

TPHg/TPHd/Benzene Concentrations in Soil (mg/kg)

Depth (feet)	Date	TPHg	TPHd	Benzene		
9	5/22/12	6.0	87.2	<0.0059		
ESLs (mg/kg)		TPHg	TPHd	Benzene		
SHALLOW COMMERCIAL		420	500	1.2		
DEEP COMMERCIAL		420	530	1.2		

- TPHd Diesel Range Total Petroleum Hydrocarbons
- TPHg Gasoline Range Total Petroleum Hydrocarbons
- ESLs Environmental Screening Levels (Non Drinking Water Source)
 - < Not detected at or above value shown
- mg/kg Milligrams per kilogram as in parts per million (ppm)
- **BOLD** Analytes detected
 - * The lab noted, estimated value below lower calibration point. Confidence correlates with concentration
 - ** The lab noted, sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

PROJECT:
154.004.008
FIGURE:
4





Soil Boring



MW-2 + Existing Monitoring Well

MW-4 ----- New Monitoring Well

New Soil Boring

TPHg/TPHd/Benzene Concentrations in Groundwater (µg/L)

Date	TPHg	TPHd*	Benzene
5/22/12	59	2,300	<1.0
ESLs (µg/L)	TPHg	TPHd	Benzene
COMMERCIAL	500	640	46

- TPHd Diesel Range Total Petroleum Hydrocarbons
- TPHg Gasoline Range Total Petroleum Hydrocarbons
- ESLs Environmental Screening Levels (Non Drinking Water Source)
 - < Not detected at or above value shown
- µg/L Micrograms per liter as in parts per billion (ppb)

BOLD Analytes detected

* Silica gel cleanup was completed on diesel-range organics analysis



Grab Groundwater Sample

Well Groundwater Sample

PROJECT:
154.004.008
FIGURE:
5

ATTACHMENT A

Regulatory Correspondence

Debra Moser

From: Detterman, Mark, Env. Health

Sent: Monday, January 14, 2013 3:51 PM

To: 'Debra Moser'

Cc: David Reisma; Mike Rogers

Subject: RE: Request for Extension, Site Assessment, ABF Freight Facility, 4575 Tidewater, Oakland Hi All,

Sorry to hear of the SNAFU. The extension sounds fine and reasonable. Please use this email to document ACEH concurrence with the requested date and extension. I'll update Geotracker shortly. Regards,

Mark Detterman Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502 Direct: 510.567.6876 Fax: 510.337.9335 Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Debra Moser [mailto:djm@tsgcorp.net]
Sent: Monday, January 14, 2013 3:37 PM
To: Detterman, Mark, Env. Health
Cc: David Reisma; Mike Rogers
Subject: Request for Extension, Site Assessment, ABF Freight Facility, 4575 Tidewater, Oakland

Hi Mark,

I'm contacting you because we have run into a delay in our assessment of the ABF Freight facility referenced above.

The sub-slab vapor sampling has to be re-done, because the lab failed to perform the VOC analysis on the Summa canisters. We plan to re-sample on Thursday 1/17/13.

In view of the delay, we request an extension of the due date for this report, to 2/22/13.

Please contact Trinity with questions regarding this request.

Thank you, Debbie

Debra J. Moser, PG, CEG, CHG Senior Geologist Trinity Source Group, Inc. 500 Chestnut Street, Suite 225 Santa Cruz, CA 95060 Tel: (831) 426-5600 Fax: (831) 426-5602

Eric Choi

From:	Debra Moser <djm@tsgcorp.net></djm@tsgcorp.net>	
Sent:	Tuesday, December 11, 2012 1:40 PM	
То:	'Eric Choi'; 'Cora Olson'	
Subject:	FW: ABF Facility, 4575 Tidewater, Oakland (RO3033)	

Hi Eric and Cora, Please see Mark Detterman's approval letter below.

The letter says that a GW monitoring report is due on 12/14/12, but Mark later clarified that this is an error.

Let's talk about the scope before Monday.

Thanks, Deb

Debra J. Moser, PG, CEG, CHG Senior Geologist

Trinity Source Group, Inc.

500 Chestnut Street, Suite 225 Santa Cruz, CA 95060 Tel: (831) 426-5600 Fax: (831) 426-5602 Cell: (831) 212-8846

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From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Tuesday, November 20, 2012 11:53 AM
To: 'Debra Moser'
Cc: 'Mike Rogers'
Subject: RE: ABF Facility, 4575 Tidewater, Oakland (RO3033)

Hi Debbie, Hi Mike,

ACEH is in general agreement with the revised site plan which depicts the revised location for MW-3 and the addition of bore B-12. As you mention below, and as we discussed, the collection of shallow soil is one of the items the LTCP is concerned with, and appears very critical at this site; especially since there are multiple notations on the bore logs of very shallow "wet" soils above what was labeled "first water". At present it remains an open question in my mind as to the depth "first water" actually is found at. Regardless...

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the *Soil, Groundwater, and Sub-Slab Vapor Investigation Data Package*, dated July 27, 2012, and the revised Figure 6, revised by hand that was emailed on November 19, 2012. Both were prepared by the Trinity Source Group, Inc (Trinity). Thank you for both; they help move the site forward.

Cc: 'Mike Rogers' **Subject:** ABF Facility, 4575 Tidewater, Oakland

Hi Mark,

This email confirms our earlier phone conversation, regarding the scope of work for the next phase of work at the referenced site.

ABF has agreed to the additional soil boring with grab-groundwater sampling, with the two wells to be installed at the site. The attached mark-up shows our proposed well and boring locations.

We will be sure to sample soils at shallow depths, so we will have data for the low-threat closure guidelines.

If this all looks ok, then we'll schedule the work for December 2012.

Please confirm your approval of the locations, or let us know otherwise.

Regards, Debbie

Debra J. Moser, PG, CEG, CHG Senior Geologist

Trinity Source Group, Inc.

500 Chestnut Street, Suite 225 Santa Cruz, CA 95060 Tel: (831) 426-5600 Fax: (831) 426-5602 Cell: (831) 212-8846

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ALAMEDA COUNTY HEALTH CARE SERVICES

ALEX BRISCOE, Agency Director



AGENCY

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

April 25, 2012

Arkansas Bandag Corporation PO Box 10048 Fort Smith AR 72917 Mr. Chris Brown ABF Freight Systems, Inc. PO Box 10048 Fort Smith AR 72917 (sent via electronic mail to <u>cbrown@abf.com</u>)

Subject: Conditional Approval of Work Plan Addendum; Fuel Leak Case No. RO0003033 and GeoTracker Global ID T0600100018, ABF Freight Systems, 4575 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the *Soil and Groundwater Investigation Work Plan Addendum*, dated March 6, 2012, prepared by the Trinity Source Group, Inc (Trinity). Thank you for the addendum. In the work plan addendum, the work was divided into two mobilization phases. In the initial phase, the addendum proposed the installation of 6 soil bores within the former UST excavation (with limited changes in bore location), and proposed the installation of five additional soil bores around the former UST complex in an effort to laterally define the extent of potential soil and groundwater contamination. The addendum included the preferential pathway study of site utilities and modified the locations and analytical suite of the two proposed sub-slab vapor points (and several soil bore locations) in response. Phase two of the proposed investigation is the installation of two groundwater monitoring wells based on the data generated in the first phase, and in consultation / concurrence with ACEH.

Based on ACEH staff review of the referenced documents and of the case file we generally concur with the recently proposed scope of work, provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or technical comments below is proposed. We request that you address the following technical comments, submit the requested document, and upon ACEH approval, perform the proposed work, and send us the technical reports requested below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. Groundwater Monitoring Well Construction Specifications – Trinity has proposed the installation of ¾-inch diameter groundwater monitoring wells at the site. ACEH has significant concerns in regards to the appropriateness of a small diameter well at sites with reasonable access (no limited access concerns). It is understood that this may have been proposed as a cost savings measure; however, as the recent Groundwater Resources Association "GRA-Cast Series" *The Nebraska Grout Task Force Research* found and documented, the annular space around narrow gauge wells is not sufficiently wide enough to accommodate the installation of enough bentonite and grout-solids to properly seal the well from the surface environment. In essence and in fact, they leak. The installation of narrow gauge wells also limits the future usefulness of the wells, should remedial efforts be required at the site. For these reasons ACEH requests the installation of standard 2-inch diameter wells, after (as planned) ACEH consultation and concurrence.

Mr. Chris Brown RO0003033 April 25, 2012, Page 2

- Laboratory Analysis In an effort to preclude miscommunication, ACEH notes that silica gel cleanup was not mentioned in the work plan addendum; however, was requested in the previous directive letter. ACEH is in agreement that silica gel cleanup is appropriate for soil and groundwater analysis at the site for extractable ranged organics.
- 3. Soil and Groundwater Investigation Report Please submit a soil and groundwater report by the date identified below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mark Detterman), according to the following schedule:

- June 29, 2012 Soil, Groundwater, and Vapor Data Submittal
- 60 Days After Well Location Approval Soil and Groundwater Investigation Report (with initial quarterly groundwater monitoring data)
- December 14, 2012 Quarterly Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Marke An

Mark E. Detterman, PG, CEG Senior Hazardous Materials Specialist

Digitally signed by Mark E. Detterman DN: cn=Mark E. Detterman, o, ou, email, c=US Date: 2012.04.25 11:07:47 -07'00'

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations Electronic Report Upload (ftp) Instructions

cc: David Reinsma, Trinity Source Group, Inc, 500 Chestnut Street, Suite 225, Santa Cruz, CA 95060 (sent via electronic mail to <u>dar@tsgcorp.net</u>)

Debra Moser, Trinity Source Group, Inc, 500 Chestnut Street, Suite 225, Santa Cruz, CA 95060 (sent via electronic mail to <u>dim@tsgcorp.net</u>)

Donna Drogos, (sent via electronic mail to <u>donna.drogos@acgov.org</u>) Mark Detterman (sent via electronic mail to <u>mark.detterman@acgov.org</u>) Electronic File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker Please visit the SWRCB website for more information on these requirements (in PDF format). (http://www.waterboards.ca.gov/water issues/programs/ust/electronic submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alemede County Environmental Cleanup	REVISION DATE: July 20, 2010	
Alameda County Environmental Cleanup	ISSUE DATE: July 5, 2005	
(LOP and SLIC)	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010	
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions	

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Please <u>do not</u> submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to <u>deh.loptoxic@acgov.org</u>
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to <u>deh.loptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B

Field Procedures

ATTACHMENT B

FIELD PROCEDURES

Soil Borings

Prefield Tasks

Exploratory boreholes are permitted and installed in accordance with state and local guidelines using a subcontracted state licensed driller. Prior to drilling, standard boring clearance procedures are followed to minimize the potential for encountering structures in the subsurface. Standard borehole clearance procedures include: (1) marking boring locations at the site and visually identifying, where possible, existing utilities; (2) notifying Underground Service Alert (USA); (3) obtaining available facility blueprints; (4) reviewing boring locations with former site operators; (5) performing field review of USA markings; and (6) hand clearing each boring to a depth of 5 feet below ground surface (bgs). Additional tasks include completing a site-specific health and safety plan and scheduling inspectors.

Exploratory Drilling

The boring is drilled using Geoprobe® or similar direct-push drilling equipment. A precleaned sampler with a clear acetate liner and drive rods (typically two inches in diameter) is advanced for the purpose of collecting samples and evaluating subsurface conditions. The sampler is advanced in intervals of 3 to 4 feet, then the rods and sampler are retracted and the acetate liner removed from the sampler head for evaluation and sample collection by the onsite Trinity geologist. The sampler head is then cleaned, filled with a new acetate liner, inserted into the borehole, and advanced over the next sampling interval where the sample retrieval process is repeated.

After retrieval, each filled acetate liner is split open for examination of soils. The onsite Trinity geologist logs the soils including a physical description of observed soil characteristics (i.e. moisture content, consistency, obvious odor, color, photoionization detector [PID] readings, etc.), drilling difficulty, and soil type as a function of depth, in accordance with the Unified Soil Classification System (USCS).

Soils collected at 2-foot intervals are screened in the field for volatile organic compounds (VOCs) using a photoionization detector (PID). The PID screening is conducted by placing approximately 30 grams from an undisturbed soil sample into a clean plastic zip-lock bag. The bag is then placed in the ambient air for approximately 20 minutes, pierced, and the head-space within the bag tested for total organic vapor measured in parts per million as benzene (ppm; volume/volume). The PID readings represent relative levels of organic vapors for the site conditions at the time of drilling. The PID readings are noted on the field logs.

In general, soil samples are preserved at changes in soil type, elevated PID readings or at a minimum of every 4 feet. Selected soil samples are retained in the acetate liners, and capped with Teflon sheeting and plastic end caps, properly labeled and then placed in an ice-filled cooler for transport to the laboratory under chain-of-custody documentation.

Grab-Groundwater Sampling

After a soil boring has been drilled to the total depth a grab-groundwater sample may be collected. A temporary PVC casing with a screen in the water-bearing zone will be placed into the boring. The casing

is bailed with a Teflon bailer until the water appears clear, and then a grab-groundwater sample is collected. Groundwater samples are placed into laboratory-supplied containers appropriate for the analyses to be performed. Ground water sampling is described in greater detail below. Purge water from groundwater sampling is stored in 55-gallon drums and removed off site by a licensed waste hauler. Waste disposal documentation is included in the summary report.

Monitoring Well Installation

The monitoring well is initially advanced, logged and sampled using the direct push equipment and then over-drilled using 8-inch diameter hollow-stem auger drilling equipment.

Once the total depth is achieved, the borehole is completed as a 2-inch diameter groundwater monitoring well. The well is constructed using Schedule 40 PVC casing, with 0.020-inch factory-slotted screen placed across and above the water-bearing zone. A #3 sand pack is placed in the annulus across from the screens and extends 0.5 feet above the screened interval, followed by a 1-foot bentonite seal. A Portland neat cement grout is placed to seal the well to the ground surface. The well sealing process is observed by Alameda County Water District inspectors as required. A watertight cap is installed on the wellhead and the well is secured with a locked, 12-inch traffic-rated vault box finished in concrete or asphalt to match the surrounding surface.

Well Development

A minimum of 72 hours after the completion of the wells, Trinity returns to the site to develop the wells.

The wells are developed to clean the well and to stabilize the aquifer materials around the slots/perforations. This is typically accomplished through pumping and or bailing methods to remove a minimum of 10 casing volumes.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately three casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electrical conductivity of the purge water are monitored. The well is considered to be sufficiently purged when the four casing volumes have been removed; the temperature, pH, and conductivity values have stabilized to within 10% of the initial readings; and the groundwater being removed is relatively free of suspended solids. After purging, groundwater levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum amount of water, the groundwater is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a groundwater sample is collected. Groundwater removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water will be recorded. If the free product thickness is reduced to the point
where a measurable thickness is no longer present in the well, a groundwater sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a groundwater sample will not be collected.

Groundwater samples for volatile organic compound analyses are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon[™] side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. Groundwater samples for other analyses are placed into appropriate laboratory-supplied containers. The chain-of-custody form is completed to ensure sample integrity. Groundwater samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

Sub-Slab Vapor Probe Installation and Sampling

The installation procedure is consistent with that described by USEPA². Sampling and analysis procedures generally follows the guidelines contained in the California Department of Toxic Substances Control (DTSC) "Advisory for Active Soil Gas Investigations" dated January 28, 2003, and the DTSC "Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" dated October 2011. The installation procedures are summarized below:

Sub-slab vapor probes are installed to float in the concrete slab. The concrete slabs underlying the buildings are assumed to be up to 6 inches thick. Therefore, to install a sub-slab probe, a one-inch diameter hole in the concrete slab is drilled to a depth of approximately 3 inches using a rotary drill or equivalent equipment. Assuming that the hole does not penetrate the slab, the hole is vacuumed out to remove cuttings. The drill bit is then changed to 5/16-inch, and the hole is advanced approximately an additional 6 inches through the slab and into the underlying sub-slab material. The sub-slab vapor probe is assembled using a 2-inch long by ¼-inch inner-diameter (ID) stainless steel tube attached to an NPT ¼-inch ID brass or stainless steel threaded fitting and Swagelok cap or plug. This assembly is placed into the drilled hole, and grouted into place using Sakrete Bolt and Rail Cement (a non-shrinking, quick-setting cement). The cement installation is recessed so that the plug is accessible. The top of the plug is set flush with the top of the concrete slab. A schematic diagram of the sub-slab probe is presented on Figure B-1.

As an alternative, Trinity may install a Vapor Pin[™], a patented sub-slab vapor sampling device with a built-in silicon seal. Vapor Pin[™] product literature is included in this Attachment. Trinity follows the

² United States Environmental Protection Agency (2006), Assessment of Vapor Intrusion in Homes Near the Raymark Superfund Site Using Basement and Sub-Slab Air Samples, and

United States Environmental Protection Agency, Draft Standard Operating Procedure for Installation of Sub-Slab Vapor Probes and Sampling Using EPA Method TO-15 to Support Vapor Intrusion Investigations.

installation procedure, and samples the Vapor Pin[™] probe in the same manner as traditional sub-slab probes.

Sampling Set-up

The sub-slab probes are allowed to equilibrate for a minimum of two hours prior to sample collection. Mobilization for sub-slab sampling will not occur if measurable precipitation or site irrigation near the sampling location has occurred in the previous five days.

Prior to sampling, the sampling technician puts on a new pair of clean gloves, and the plug on the subslab probe is removed and quickly replaced with a closed Swagelok valve. A tee fitting is connected to two six-liter Summa canisters with a pressure gauge installed on each of these fittings.

The two Summa canisters are connected by approximately 1 to 2 feet of tubing and a third tee fitting. The vacuum reading on each canister is confirmed and recorded before proceeding. The vacuum reading is expected to be 30 inches mercury ("Hg). On the downhole side of the third tee fitting, a 100 to 200-milliliter per minute (ml/min) flow regulator followed by a laboratory supplied particulate filter is installed. On the downhole side of the particulate filter, a vapor-tight valve is installed to connect the sampling equipment with the probe tube. A schematic drawing of the sub-slab sampling set-up is shown on Figure B-2.

Leak Testing

A vacuum test is conducted on the connections between the Summa canisters and the valve on the downhole side of the regulator for 10 minutes by opening and closing the purge canister valve to place a test vacuum on the assembly. Further work is terminated if gauge vacuum cannot be maintained for 10 minutes.

Additional leak testing is performed during the sub-slab vapor sampling by placing a shroud over the sampling assembly, and maintaining a helium-enriched atmosphere under the shroud. The shroud is emplaced after purging the vapor probe, but before the sample is collected. Using a helium canister and appropriate tubing and fittings, helium is injected under the shroud. A helium detector is used to monitor the helium-enriched environment beneath the shroud in "real time" until the sampling process is complete. Helium concentrations will be tabulated and included in the investigation report. 1,1-Difluroethane is also used as a leak detection method using the same shroud method.

Purging

If the vacuum test is successful, purging is conducted. The purge canister valve and the valve on the downhole side of the particulate filter are opened and the time is recorded. The purge canister valve is closed after three volumes of air have been purged from the sample apparatus and borehole. The purge volume is calculated based on the internal volume of the tubing and probe apparatus. The amount of air purged is measured based on the time that the flow-control orifice is opened, with a flow rate of 100 to 200-ml/min, and based on a discernable vacuum drop on the purge canister pressure gauge. The time at which purging is terminated is recorded.

Sampling

Following purging, the sample Summa canister valve is opened to begin sample collection. The time at which sample collection begins is recorded.

The flow-control orifice is maintained at 100 to 200-ml/min, and is kept open until the sample Summa canister pressure gauge indicates approximately 5"Hg. At that point, the sample canister valve is closed and the time recorded. The tee fitting on the sample canister is replaced with a laboratory-supplied brass plug.

The sample canister is labeled and chain-of-custody maintained by recording: sample name, sample date, sample time, final vacuum, canister and flow controller serial numbers, initials of sample collector, and the compounds to be analyzed by the certified laboratory. The sample canisters are stored in a container that blocks sunlight to the opaque canister and does not subject the air-tight canister to changes in pressure and temperature. The sample canisters are delivered to the analytical laboratory via ground transportation under chain-of-custody documentation.

Sorbent tubes will be used to sample for some of the analytes. The procedure for sampling with a sorbent tube involves attaching a metered air sampling pump to one end of the sorbent tube, and attaching the other end to the sub-slab probe. The sampling pump is activated for a pre-determined period of time at a predetermined flow rate, to allow sufficient sample volume to sorb to the tube. Following sampling, the tube is sealed at both ends, labeled, and delivered to the laboratory via ground transportation under chain-of-custody documentation.



Standard Operating Procedure Installation and Extraction of the Vapor Pin[™] March 16, 2012

Scope:

This standard operating procedure describes the installation and extraction of the Vapor Pin^{™1} for use in sub-slab soil-gas sampling.

Purpose:

The purpose of this procedure is to assure good quality control in field operations and uniformity between field personnel in the use of the Vapor Pin[™] for the collection of subslab soil-gas samples.

Equipment Needed:

- Assembled Vapor Pin[™] [Vapor Pin[™] and silicone sleeve (Figure 1)] - Because of sharp edges, gloves are recommended for sleeve installation;
- Hammer drill;
- 5/8-inch diameter hammer bit (Hilti[™] TE-YX 5/8" x 22" #00206514 or equivalent);
- 1½-inch diameter hammer bit (Hilti™ TE-YX 1½" x 23" #00293032 or equivalent) for flush mount applications;
- ³/4-inch diameter bottle brush;
- Wet/dry vacuum with HEPA filter (optional);
- Vapor Pin[™] installation/extraction tool;
- Dead blow hammer;
- Vapor Pin[™] flush mount cover, as necessary;
- Vapor Pin[™] protective cap; and

• VOC-free hole patching material (hydraulic cement) and putty knife or trowel.



Figure 1. Assembled Vapor Pin[™].

Installation Procedure:

- 1) Check for buried obstacles (pipes, electrical lines, etc.) prior to proceeding.
- 2) Set up wet/dry vacuum to collect drill cuttings.
- 3) If a flush mount installation is required, drill a 1¹/₂-inch diameter hole at least 1³/₄-inches into the slab.
- 4) Drill a 5/8-inch diameter hole through the slab and approximately 1-inch into the underlying soil to form a void.
- 5) Remove the drill bit, brush the hole with the bottle brush, and remove the loose cuttings with the vacuum.
- 6) Place the lower end of Vapor Pin[™] assembly into the drilled hole. Place the small hole located in the handle of the extraction/installation tool over the Vapor

¹Cox-Colvin & Associates, Inc., designed and developed the Vapor PinTM; a patent is pending.

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Standard Operating Procedure Installation and Removal of the Vapor Pin[™] March 16, 2012 Page 2

 Pin^{TM} to protect the barb fitting and cap, and tap the Vapor Pin^{TM} into place using a dead blow hammer (Figure 2). Make sure the extraction/installation tool is aligned



Figure 2. Installing the Vapor PinTM.

parallel to the Vapor Pin[™] to avoid damaging the barb fitting.

For flush mount installations, unscrew the threaded coupling from the installation/extraction handle and use the



Figure 3. Flush-mount installation.

hole in the end of the tool to assist with the installation (Figure 3).

During installation, the silicone sleeve will form a slight bulge between the slab and the Vapor Pin^{TM} shoulder. Place the



Figure 4. Installed Vapor PinTM.

protective cap on Vapor Pin[™] to prevent vapor loss prior to sampling (Figure 4).

- 7) For flush mount installations, cover the Vapor Pin[™] with a flush mount cover.
- 8) Allow 20 minutes or more (consult applicable guidance for your situation) for the sub-slab soil-gas conditions to equilibrate prior to sampling.
- 9) Remove protective cap and connect sample



Figure 5. Vapor Pin[™] sample connection.

tubing to the barb fitting of the Vapor Pin[™] (Figure 5).

10) Conduct leak tests [(e.g., real-time

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monitoring of oxygen levels on extracted sub-slab soil gas, or placement of a water dam around the Vapor Pin[™]) Figure 6].



Figure 6. Water dam used for leak detection.

Consult your local guidance for possible tests.
11) Collect sub-slab soil gas sample. When finished sampling, replace the protective cap and flush mount cover until the next sampling event. If the sampling is complete, extract the Vapor Pin[™].

Extraction Procedure:

1) Remove the protective cap, and thread the installation/extraction tool onto the barrel



Figure 7. Removing the Vapor PinTM.

of the Vapor Pin^{TM} (Figure 7). Continue turning the tool to assist in extraction, then pull the Vapor Pin^{TM} from the hole (Figure 8).



Figure 8. Extracted Vapor Pin[™].

- 2) Fill the void with hydraulic cement and smooth with the trowel or putty knife.
- Prior to reuse, remove the silicone sleeve and discard. Decontaminate the Vapor Pin[™] in a hot water and Alconox[®] wash, then heat in an oven to a temperature of 130° C.

The Vapor Pin^{TM} to designed be used repeatedly; however, replacement parts and supplies will be required periodically. These parts are available on-line at www.CoxColvin.com.

Replacement Parts:

Vapor Pin[™] Kit Case - VPC001 Vapor Pins[™] - VPIN0522 Silicone Sleeves - VPTS077 Installation/Extraction Tool - VPIE023 Protective Caps - VPPC010 Flush Mount Covers - VPFM050 Water Dam - VPWD004 Brush - VPB026





ATTACHMENT C

Permits



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 05/01/2012 By jamesy

Permit Numbers: W2012-0307 Permits Valid from 05/15/2012 to 06/30/2012

Application Id: Site Location:	1335470991969 ABF Freight System Facility	City of Project Site:Oakland
	4575 Tidewater Avenue	
Project Start Date: Assigned Inspector:	Oakland, CA 05/15/2012 Contact Steve Miller at (510) 670-5517 or stevem@a	Completion Date:06/30/2012 acpwa.org
Applicant:	Trinity Source Group - Cora Olson	Phone: 831-426-5600
Property Owner:	Solo Chestnut Street, Suite 225, Santa Cruz, CA 950 Chris Brown	Phone:
Client:	Chris Brown	Phone:
Contact:	Debra Moser	Phone: 831-426-5600 Cell: 831-212-8846

	Total Due:	\$265.00
Receipt Number: WR2012-0131	Total Amount Paid:	\$265.00
Payer Name : Cora Olson	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 13 Boreholes Driller: Trinity Source Group, Inc - Lic #: 913467 - Method: DP

Work Total: \$265.00

Specificatio	115				
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2012-	05/01/2012	08/13/2012	13	2.00 in.	25.00 ft
0307					

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

399 Elmhurst Street Havward CA 94544-1395

PUBLIC WORKS	Telephone: (510)670-6633 Fax:(5	10)782-1939	
Application Approved	d on: 11/30/2012 By jamesy	Permit Numbers: V Permits Valid from	V2012-0834 to W2012-0836 n 12/10/2012 to 12/21/2012
Application Id: Site Location:	1353960554539 ABF Freight Systems Facility	City of Project S	i te: Oakland
	4575 Tidewater Avenue		
Project Start Date: Assigned Inspector:	Oakland, California 12/10/2012 Contact Vicky Hamlin at (510) 670-5443 or vicky	Completion Da	ate:12/21/2012
Applicant:	Trinity Source Group, Inc Jon Gamble 500 Chestnut Street, Suite 225, Santa Cruz, CA	95060 Pho	ne: 831-426-5600
Property Owner:	Mike Rogers 3801 Old Greenwood Road, Fort Smith, AR, 729	Phoi	ne:
Client:	** same as Property Owner **		
	а.		
	Receipt Number: WR2012-0389 Payer Name : David A. Reinsma-Trinity	Total Due: Total Amount Paid: /Paid By: VISA	\$1059.00 \$1059.00 PAID IN FULL

Source Group

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 1 Boreholes Driller: Trinity Source Group, Inc. - Lic #: 913467 - Method: DP

Work Total: \$265.00

Specificati	ions				
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2012- 0834	11/30/2012	03/10/2013	1	2.00 in.	25.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Well Construction-Monitoring-Monitoring - 2 Wells Driller: Trinity Source Group, Inc. - Lic #: 913467 - Method: hstem

Work Total: \$794.00

Specificati	ons						
Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012- 0835	11/30/2012	03/10/2013	MW-3	8.00 in.	2.00 in.	5.00 ft	12.00 ft
W2012- 0836	11/30/2012	03/10/2013	MW-4	8.00 in.	2.00 in.	5.00 ft	12.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

ATTACHMENT D

Boring Logs and Well Completion Reports

SOIL CLASSIFICATION CHART

W		ONS	SYME	BOLS	TYPICAL
			GRAPH	LETTER	DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
004505	GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS	SAND AND	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
NO. 200 SIEVE SIZE	SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE		2		мн	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIG	HLY ORGANIC S		76 76 76 76 76 76 76 76 7 75 76 76 7	PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS





•	e t	Trinity Sour 500 Chestnu Santa Cruz, Talophono:	ce Grou ut St., S Califor	up, Inc. uite 22 nia 950	5 60	BOR	NG NUMBER MW-4 PAGE 1 OF 1
00	0000	Fax: 831.42	6.5602	0.0000			
CLIE	NT ABF	Freight				PROJECT NAME _ ABF Freight	
PRO	JECT NU	MBER _ 154	.004.0	08		PROJECT LOCATION 4575 Tidewater	Ave, Oakland, CA
DATE	E STARTE	D 12/17/1	2		COMPLETED 12/17/12	GROUND ELEVATION	HOLE SIZE _8"
DRIL	LING CO	NTRACTOR	ECA			GROUND WATER LEVELS:	
DRIL	LING MET	THOD _Geo	probe			\overline{Y} at time of drilling _9.0 ft	
LOG	GED BY	J. Gamble			CHECKED BY D. Moser	AT END OF DRILLING 5.3 ft	
NOT	ES					AFTER DRILLING	
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PID (ppm)	GRAPHIC LOG	MAT	ERIAL DESCRIPTION	WELL DIAGRAM
0					OF TOP 6" ASPHALT		
			0.0		BASEROCK (FILL) Brown (7.5YR, 4/4), Angu Silt	lar Gravels, up to 1" Clasts with Sand And	- 0-2' Portland Cement
	- AU		0.0		2.0 SAND (SP) Grenish Black (Gley1, 2.5	i/1), Moist, Med. Dense/Stiff, Fine Grained,	← 2-3' Hydrated
			0.0		CLAY (CL) Greenish Black (Gley1, 2.	5/1), Moist, Med. Dense/Stiff, with Trace	
5			0.0		Fine Grained Sand, ~15% SAME AS ABOVE AT 4'	sand, No Odor	
			0.0		✓ CLAYEY SAND (SC) Very Dark Greenish Gray	(Gley1, 3/1), Moist, Med. Dense/Stiff, Fine	
_			0.2		SAME AS ABOVE AT 6' Less Clay~10%	5401	3.5-10' 2" Dia., PVC
			0.0		CLAY (CL) Greenish Black (Gley2, 2. Faint Product Odor	5/1), Moist, Dense/Very Stiff, Low Plasticity	0.020" Screen
			1.5		SAME AS ABOVE AT 8' Increase in Plasticity, No	Product Odor	
10			2.6		CLAYEY SAND (SC) Very Dark Greenish Gray with Trace Sub-Angular S	/ (Gley1, 3/1), Wet, Loose/Soft, Fine Graine andstone Gravels, up to 1/4" in Dia., Trace	be
			0.0		Clay ~10%, Faint Product SAME AS ABOVE AT 10 11.0 With No Gravels, Modera	Odor te Product Odor with Visible Sheen ,	Collapsed Soil
T 2/18/13		-	0.1		Increase in Clay to ~25% SANDY CLAY (CL) Very Dark Greenish Gray	(Gley1, 3/1), Moist, Med. Dense/Stiff, Very	
TE.GD'					Fine Sand~10%, No Prod Bott	uct Odor tom of hole at 12.0 feet.	
IPLAT							
TEN							
NGLE							
AE AI							
08.GF							
004.0							
154.(
LBH							
ENTA							
ONME							
AVIRC							
Ξ.				1			

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

ATTACHMENT E

Field Data Sheets

				PL	JRGE, SA	SOIL G	AS INVI	ESTIGATI	ION LD DATA S	SHEET		•••]	RINIT	Y	inc
						6 L	iter Su	mma		-		t	Environme	ntal Consu	ltants
Project No.:	154.004.004	L				<u>.</u>	Purge Test	Location:	SVP-	2		00000)		
Facility Name:	ABF Freigh	t				<u>.</u>	Purge Met	hod: 1 L -	6L Summa Car	nister					
Address:	4575 Tidew	ater Avenue;	Oakland, C	A			Leak Test	Compound :		Helium					
Staff:	Eric Choi /	Jon Gamble					Flow Cont	rol Orifice (ml	/min):	Approximately 100 m	nl/min				
Date:				Tubing Siz	ze (in):	3/16 ID; 1/4 0	DD	-	Bore Hole Dia.	(in):NA		-			
	12 Martine			1			Purge Vo	lume Calc	ulation					12.18	
Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	Bore Hole Radius (inches)	Area of Bore Hole Radius (r2)	Length of Bore Hole Sand Pack (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (ml/min)	Est. Purge Time (min)	Inches of Mercury (5"/Liter)
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	1	16.387	2.047	0.002	100	0.02	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	3	16.387	6.142	0.006	100	0.06	0
0.094	0.009	0.375	45	2 047	1	1 000	0	0.000	7	10 207	44.004	0.014	400		
		Purgin	ng & Sam	pling Dat	а				Leak Tests	Data		Field Readi	nas / Infor	mation	
Calculated Total Purge Volume (ml)	Time Start Purging (24 hr)	Time Stop Purging (24 hr)	Initial & Final Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged (ml)	Time Start Sampling (24 hr)	Time Stop Sampling (24 hr)	Final Vacuum Gauge Reading (Hg")	lso- propanol Applied (yes/no)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start Time/ Vacuum (Hg")	Vacuum Train Test Stop Time/ Vacuum (Hg")	Probe Install Date	Probe Install Time	Purge Volume s	Probe Depth (Feet)
2 047	1213	1214	-15/14		1215	1220	()								i kuna
6.142	12.2	1-11			-27	100-		NO	PASS	1050/-15	1100/15			3	0.66
14.331														7	0.66
Notes:					<u> </u>				I					1	0.66
	Helin	nt tu	20% he st	@ 127 WF Q	1310	Sam end	410	ih sh	nin. con	upponel to s	SUP-1.	tak 11h	h71		
	Klab	clider	supp	Is mi	Place	2 (m) n	GANK								

0:\admin\forms\soil vapor sampling form.xls

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Project No.:	154 004 004			PU	IRGE, SA	SOIL G MPLE & I 6 Li	AS INVE LEAK TE iter Sur	ESTIGATI EST - FIE nma	ON LD DATA S	HEET		••• 1	Source Environmen	Y group, mal Consul	inc. tants
Facility Name:	ABF Freight	t				•	Purge Meth	nod: 1)	at Summa Can	istor					
Address:	4575 Tidewater Avenue: Oakland. CA														
Staff:	Eric Choi /	Jon Gamble					Flow Contr	ol Orifice (ml	/min):	Approximately 100 m	ıl/min				
Date:				Tubing Siz	e (in):	3/16 ID; 1/4 C	DD		Bore Hole Dia.	(in):NA					
							Purge Vo	lume Calc	ulation						
Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	Bore Hole Radius (inches)	Area of Bore Hole Radius (r2)	Length of Bore Hole Sand Pack (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (ml/min)	Est. Purge Time (min)	Inches of Mercury (5"/Liter)
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	1	16.387	2.047	0.002	100	0.02	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	3	16.387	6.142	0.006	100	0.06	0
0.094	0.009	0.375	45	2 047	1	1.000	0	0.000	7	16 297	14 001	0.014	400	0.44	
(b) 3.141593(Pi) * bor	e hole r ² * inc	hes of bore h Purgin	ole * 16.3870	oling Data	sion of cubic in	nches to millili	ters)		total purge volur	ne (ml) ÷ purge rate (m Data	ax of 167 ml/m	n) Field Readi	ngs / Infor	nation	
Calculated Total Purge Volume (ml)	Time Start Purging (24 hr)	Time Stop Purging (24 hr)	Initial & Final Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged (ml)	Time Start Sampling (24 hr)	Time Stop Sampling (24 hr)	Final Vacuum Gauge Reading (Hg")	lso- propanol Applied (yes no)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start Time/ Vacuum (Hg")	Vacuum Train Test Stop Time/ Vacuum (Hg")	Probe Install Date	Probe Instali Time	Purge Volume s	Probe Depth (Feet)
2.047	1020	1021	-28/77		1015	1210		NA	PASS	09461-27	2986/-17			1	0.66
6.142					-28	-6	-6							3	0.66
14.331														7	0.66
Notes:	Hetiv Sampt Kstort	e vesse sorten	10% @ 二件5 生 十1	2 1021 VP-1 L C	e-25 e-25 1210	tell thsin end 1	138 .310	1234.0 12010	1045 1130	1100 C 21 106 1145	574 1 7 1 20	04 C 1/ C 2 0	0		

Page_2 of 3

McCAM 1534 WILLOW Website: <u>www.mc</u> Telephon	PBEL PASS R campbell e: (877) 2	L ANA OAD / PI . <u>com</u> / Ei 252-9262	LYTICAL INC. TTSBURG, CA 94565- nail: main@mccampbe / Fax: (925) 252-9269	1701 H.com	CHAIN OF CUSTODY RECORD TURN AROUND TIME RUSH 24 HR 48 HR 72 HR EDF Required? Coelt (Normal) No Write On (DW) No						
Report To: David Re	MSW	na	Bill To: TONI	ty			Lab Use	Only			
Company: Tomity S	0050	e C	TRUP, Inc	- /					Pre	essurizatio	on Gas
500 Chesthur	t St	reet	Soile 22	25	Pressurized	l By		Date		19	He
Santa Cruz,	CA		E-Mail: Lubstr	inity@qmail.	com				1	12	ne
Tele: (831)426-5	5600	>	Fax: (83))4	26-5602			tan se				
Project #: 154.001	1		Project Name: A	BF Freight	Helium Shroud SN#:						
Project Location: 4 57.	5 Ti	dew	nter Ave ic	aklund, CA	Other:						
Sampler Signature:	1_	•		1	Notes: 1_OW1	-EV	EL.	SII			
Field Sample ID	Colle	ection	Condition SNH	Manifold /Sampler	Detection Limits	, TPH PCE	fg-2	.80 vy/n .8 va/m	n3, Be 3, Nap	Indere -	-2.80g/m 2.4 00/1
(Location)	Det	T	Canister SN#	Kit SN#	Analysis Requested	Indoor	Soil	Ca	nister Pre	ssure/Vacu	
	Date	lime				Air	Gas	Initial	Final	Receipt	(psi)
SUP-1	pipi	5. 102	SEILIN	suma	TPHat VOCS (TO-15						
SUP-1			- 0 X		He, O, CH, CO, 19	46D)	(10)				
SUP-1	n/17/1	3:1211) E: 1311) So	-bent Tube	Nuothelere (TO-1=	7)					
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			L	SHL@Flo.	v 60.7m/mmf	or 1 h	av				
SVP-2	2 h	SITIR	5 8:1720	suma	TPHOT VOLS (TO-15	D					
SVP-2					Hejoz, CH4, CO2	(1946D	(%)				
SVP-Z	12141	5:1310	E: 14/10 Sor)	port Tube	Napthalene (TO-1	7)					
			5	4LC Flow (Co. 7 ml/min for	1 hour	†				
1					0 11 1		1	11 - 1	11.0	12	
Palidavilhad Bu	Datas	Times	D	L	KUA Helium 1.	st ur	net cu	111+	HC	- 54	
Refinquisned by:	Date:	hime:	Received by:		Temp (°C) :	Work Orde	r #:	1.	> 7"	5%	
412	KHM	以 川			Equipment						
Kelindusuea RA:	Date:	lime:	Keceived By:	·	Condition:						
					Shipped Vist						
Relinquished By:	Date:	Time:	Received By:								

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source group, inc. Environmental Consultants

500 Chestnut Street, Suite 225 Santa Cruz, California 95060 v: 831.426.5600 f: 831.426.5602

Drum Disposal Log

Site:



Project No.

	Drum	s to B	e Disposed		
Date of Field Work	12/17	12	sketch of drum locati	on:	
	soil	water	· 601	7	
Number of drum(s) Empty:			101	P	
Number of drum(s) 1/4 full:			$\left 1 \right\rangle$	shell	1+
Number of drum(s) 1/2 full:			IA C	- Drums	1 m
Number of drum(s) 3/4 full:			1 Dispotch		1X
Number of drum(s) full:	2			1	Ŧ
Total drum(s) on site:	3-1	total			
Are drum(s) properly labeled?	Ves	Yes	+ idevater		
Drum ID and Contents:	Sal	Decntu	1		
Notes:			Profiling: Already o	n file?	
All Trinity drums MUST be labeled	d appropria	ately.	If new pro	ofile is needed:	
Describe location of drum(s); atta	ich map:		Lab:		
Are drums in locked enclosure?			Analytes:	State and	
Need to be onsite for pickup?	10	Key or cor	nbo?		
	Di	sposal	Details	and the second	
Preferred disposal contractor				Initial when comp	lete
Date pickup requested					
Date pickup completed					
Date paperwork received (scan					
to server)					
Any unusual conditions?					
Does contractor require form?					100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
Drum Disposel Cont	rootor Co	nto of Info	rmotion		

Drum Disposal Co				
Ultramar/Valero Sites:	Belshire Environme	ntal Services	Were drums delivered by the	
(need to provide EWO or	Adam Burton		disposal contractor?	
Work Order # for Belshire	(949) 460-5200	cell (949) 279-1664		
to direct bill)	adam@belshire.cor	<u>n</u>		
Other Sites:	Environmental Logis	stics	Do we need to replenish our	
(need to provide Project Number	Nikki Washington		drum inventory?	
for billing to Trinity)	(510) 670-9901	(510) 670-9904-Fax		

nikki_washington@filterrecycling.com

Field Data Sheet Depth to Water Data Form

Site Information. <u>4745</u> <u>Tidewerter</u> Project Address <u>Octoberel</u> <u>City</u>	Ave 1/4/13 Date Alamela	<u>IS4, 6001</u> Project Number <u>(A</u> State		RINITY SOURCE BRO Environmental (No Chentus Store 324 State Cray Co 8000 . Stil 426 4000	DUP, inC. Consultants
Water Level Equipment	;	Measured by: <u>E</u>	WCR		

Electronic Indicator	
Oil Water Interface Probe	

" Cle Name Notes:____

Other (Specify)

Well ID	DTW Order	Time (2400)	Total Depth	First DTW (toc or tob)	Second DTW (toc or tob)	Depth to SPH (toc or tob)	SPH Thickness (toc or tob)	Notes: (describe SPH)
MW-4	134	0944	10,18	3.18	3.18			
1			10-10					
MW-3	Znd	0946	9,58	3.62'	3.62			
			-					
								-
							-	
		100 US						
						\$		
						/		
					11			
I					11/1			and the second
				Signati	ure <u> </u>	\sim		
					VV			



Source group, inc. Environmental Consultants

500 Chestnut Street, Suite 225 Santa Cruz, California 95060

Well Development Log

Site: ABF Freight

Sampler: Eric Choi/William Rice

Date: 1/9/13 Project #:154.004.

Well ID: MW-3

Well Diameter	TD B	тос	DTW BTOC	Purge Equipment	Sample Equipment
2"	9,58	9.75	3.62	12 VDC PUMP	No Sample Collected
Purge Volume Calculation	initial '	fival			
то отw3.	.62 = 5.	96_x	Gallons per Linear Foot	$\underline{\mathcal{O}}, \underline{\mathcal{O}}, \underline{\mathcal{O}}_{x} \xrightarrow{\text{Number of } 10}$	= <u>~10</u> gallons

						and the second se	
Time (24 hour)	1012	1014	1029	1029	1034	1042	1050
Gallons Purged	1	4	6	4	10	14	18
DO (mg/L)	1.90	1.16	1,89	1.74	2.40	2.46	2,52
pН	6.69	6.62	6.66	6.64	6.63	6.65	6.65
Temperature (°C)	18.6	19.4	20.4	20.4	21,1	21,2	21.2
Conductivity (umhos/cm ²)	16.42	15.42	11.05	10.16	4050	6258	7935
ORP (mV)	-124	-132	-120	-129	-107	-101	-95
Visual Description	gray	Sviz	gray	GRY	elen	Clear	clear
Other H	Cloudy	clarity	cloudy	(lardy			Socry
Other (NTU)	71000	>1,000	21,000	7:000	451.1	50.94	19.78

Sample ID	Time	Quantity	Volume	Туре	Preservative	Analysis
No same collected						

Notes: of 1474 observed TD : Q.55, surged well prior to pumping a surge	bluck	
After pumping ~4 solliers, surged well w/pump.	Casing Diameter	Gallons per Linear Foot
	1.25"	0.077
	1.5"	0.10
	2"	0.16
	3"	0.37
	3.5"	0.50
	4"	0.65
	6"	1.46
	8"	2.60



SOURCE GROUP, INC. Environmental Consultants

500 Chestnut Street, Suite 225 Santa Cruz, California 95060

Well Development Log

Site: ABF Freight

Sampler: Eric Choi/William Rice

Date: 1913 Project #:154.004.

Well ID: MW-4

Well Diameter	TD B/TOC	DTW BTOC	Purge Equipment	Sample Equipment	
2"	10.18/10.18	3,14	12 VDC PUMP	No Sample Collected	
Purge Volume Calculation	itial/final				
דם סדש <u>אול</u>	<u></u> ×	Gallons per Linear Foot 0116	$= \frac{112}{x} \times \frac{\text{Number of }}{\text{Casings}}$	= <u> 4</u> gallons	

Time (24 hour)	1003	1102	1145		
Gallons Purged	25	4	7		
DO (mg/L)	2.41	3,72	4.71		
рН	6.69	6.71	6.76		
Temperature (°C)	16.9	18.1	18,1		
Conductivity (umhos/cm ²)	6300	6.000	6040		
ORP (mV)	-69	-92	-65		
Visual Description	Brown	BIOLON	Clear		
Other (NTV'S)	>1,000	424.5	87.17		
Other					

Sample ID	Time	Quantity	Volume	Туре	Preservative	Analysis
No sample calletel						

Notes: ofirst observed TD: 10.18 upon arrival esite, surged Well w/surge block + hen pumped. After pumping approx. 4 gallons well day, remule pump ond let Casing Gallons per Linear Foot Diameter 1.25" 0.077 1.5" 0.10 recharge CIOUL OE 1109 00 all Day. Torand pary off to let recharge 2" 0.16 3" 0.37 3.5" 0.50 4" 0.65 · CILYG Well wont dry & Sgalogs 6" 1.46 8" 2.60



TRINITY WELLHEAD INSPECTION FORM

Site Address:

Date:

Project No .:		Technician:						Page:	of
Well ID	Well Inspected-No Corrective Action Required	Well Box Meets Compliance Requirements *see below	Water Pumped From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MCJ-3	1.5	425	No	NG	No	AD	No		
M12-4	yes	Yes	No	No	No	NO	No		
	- 1						-		
				1.11					
									0.7

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH

THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE AND CORRECT

Notes:



Trinity SPH or Purge Water Drum Log

500 Chestnut Street, Suite 225 Santa Cruz, California 95060 v: 831.426.5600 f: 831.426.5602

Site:

ABF Freight

	Status of	Drum(s) Up	on Arrival		
Date	1/7/B				
Number of drum(s) Empty:	0				
Number of drum(s) 1/4 full:	0				
Number of drum(s) 1/2 full:					
Number of drum(s) 3/4 full:	0				
Number of drum(s) full:	@3				
Total drum(s) on site:	4				
Are drum(s) properly labeled?	405				
Drum ID and Contents:	Purje H, O				
If you add any SPH to an empty If drum contains SPH, the drum All Trinity drums MUST be label	/partially filled dru MUST be steel Al d appropriately.	m, drum must ha ND labeld with ap	ve at least 20 ga propriate label.	als. of purgewat	er or DI water.
	Status of Dr	rum(s) Upo	n Departur	e	
Date	1/7/13				
Number of drum(s) Empty:	0				
Number of drum(s) 1/4 full:	6				
Number of drum(s) 1/2 full:	6				
Number of drum(s) 3/4 full:	6				
Number of drum(s) full:	4				
Total drum(s) on site:	4				
Are drum(s) properly labeled?	Purgett,0				
Drum ID and Contents:	PURCEA, 0				
	Loca	tion of Dru	m(s)		
Describe location of drum(s):	ehnd Service	Shor inal Status			
site this event					
Date of inspection:					
Drum(s) labeled properly:					
Logged by Trinity Field Tech:					
Office reviewed:					

TEST EQUIPMENT CALIBRATION LOG



site: ABF	Freizh+		Date:		Project No.:	54	
Equipment Name	Equipment Number	Date/Time of Test	Standards Used	Equipment Reading	Calibrated to : or within 10%:	Temp.	Initials
UltransverI	_	1/7/13 @ 1055	7 pH	7.1		10.5	BR

Field Data Sheet Depth to Water Data Form

Site Information A BF Freigl.+ Project Address Och k land	1/7/13 Date	<u>IS</u> Project Number	TRINITY source group, inc. Environmental Consultants
City	County	State	v SV 425 5600 E E11 426 6402
Water Level Equipment		Measured by: BMC R	ice

Notes:_____

□Oil Water Interface Probe

Other (Specify)

Electronic Indicator

Well ID	DTW Order	Time (2400)	Total Depth	First DTW (toc or tob)	Second DTW (toc or tob)	Depth to SPH (toc or tob)	SPH Thickness	Notes: (describe
MID-4	(1045	10.20	3.91	391			5111)
Mas-3	2	1050	9.78	3.68	3.68			
		1						
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			1					
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				Signatu	ire Dif			



Source group, inc. Environmental Consultants

500 Chestnut Street, Suite 225 Santa Cruz, California 95060

Well Purge and Sampling Log

Freight F Site: Sampler: B.((Rice Project #: 154 Date: 1/7/13

Well ID: MW-3

Well Diameter	TD BTOC	DTW BTOC	Purge Equipment	Sample Equipment
2"	9.78	3.68	IZV PUNY	Barlen

Purge Volume Calculation]		
TD 9.78 - DTW 3.68 =	Gallons per Gallons per Linear Foot	$0.16 = 0.17c_x$ Casings 3	= gallons

Time (24 hour)	1155	1200	1205		
Gallons Purged	1	2	3		
DO (mg/L)	1.78	1.24	1.34		
рН	6.93	6.87	6.85		
Temperature (°C)	18.5	18.3	18-5		
Conductivity (umhos/cm ²)	14.67	14.98	15.26		
ORP (mV)	-92	-98	-95		
Visual Description	Clear	Clear	clar		
Other					
Other					

Sample ID	Time	Quantity	Volume	Туре	Preservative	Analysis
Mau-3	1215	12	Your	Voa	Her	
		(SOSML	Auber	Her	
		(14	Amber	14e1	

Notes:		
	Casing Diameter	Gallons per Linear Foot
	1.25"	0.077
	1.5"	0.10
	2"	0.16
	3"	0.37
	3.5"	0.50
	4"	0.65
	6"	1.46
	8"	2.60



source group, inc. Environmental Consultants

500 Chestnut Street, Suite 225 Santa Cruz, California 95060

Well Purge and Sampling Log

Site: ABF Freight BR Sampler: Date: 1/7/13 Project #: 154

Well ID: MW-4

Well Diameter	Well Diameter TD BTOC		Purge Equipment	Sample Equipment	
2"	10.20	3.91	12v gour	Bailer	

Purge Volume Calculation								
TD <u>16.20</u> - DTW <u>3.91</u>	= 6.29 x	Gallons per Linear Foot	0.16	_= <u>1.006</u> x	Number of Casings	=	3	gallons

Time (24 hour)	1100	1105	1010			
Gallons Purged	i	2	3			
DO (mg/L)	6.60	2.80	2.67			
рН	6.81	6.81	6.83			
Temperature (°C)	15.4	17.9	18.9			
Conductivity (umhos/cm ²)	7390	11.13	13.62			
ORP (mV)	31	-40	-54			
Visual Description	Clear	Brain	Brown		4	
Other						
Other		2				

Sample ID Mcj-4	Time	Quantity	Volume	Туре	Preservative	Analysis		
	1130	iz	your	Voc	Hel			
		l	Jume	Amber	111			
		1	14	Amber	14.1			

Notes:		
	Casing Diameter	Gallons per Linear Foot
	1.25"	0.077
	1.5"	0.10
	2"	0.16
	3"	0.37
	3.5"	0.50
	4"	0.65
	6"	1.46
	8"	2.60

Trinity Source Group 500 Chestnut St., Ste 225 Santa Cruz, CA, 95060		В	Billing Information:				Analysis/Container/Preservative								Chain of Custody		
		5	Accounts Payable Trinity Source Group 500 Chestnut Street, Suite 225 Santa Cruz, CA 95060 Report to: labstrinity@gmail.com					CL - BT			Silica Gel	Oxygenates/	- HCL	ESC - I - E - N - C - E - S			
								Re	H-9				ress	Amb	12065 Lebanon Road		
			Em	Email to: labstrinity@gmail.com					Aml	5	NoF	НСГ	TBE/	Oml	Mt. Juliet, TN 37122		
Project ABF Freight Systems, Inc.				City/Sate Collected Oakland, CA					40mlAmb - H	h H(100ml Amb -	O FATSIN - TUUTII ATID - DGHEX - 1L- Clr - Add	0LL (Only report BTEX/M	T O	Phone: (800) 767-5859		
^{Phone:} (831) 426-5600 FAX: (831) 426-5602	Client Project #: 154.		ESC Key: TrinitySCCA-1540			001	40mlAm	Homl An		EDB/ED				Fax: (615) 758-5858 Fax: (615) 758-5859 CoCode (lab use only) Template/Prelogin			
Collected by:	Site/Facility ID#:			P.O.#:				1	1	-4-	1					ene/E	
Collected by (signature): Immediately Packed on Ice N Y	Rush? (Lab MUST Be N Same Day Next Day Two Day Three Day			Notified) Date Results Needed: 200% 100% Email?No⊻Yes 50% FAX? ✔_No_Yes		No.	CAERL VI	CAERL VI	70 PAHSIM		Napthale						
Sample ID	Comp/Gra	rab Matrix*		Depth	n Date	Time	Cntrs	Itrs OUC	ORO	GRO	V82	TPHC	/826		Remarks/Contaminant	Sample # (lab only)	
MW.S		16.	(1)	1	1/7/1	1215	14	\times		~		1	~				
Max. 4			· · ·		1/3/1	1130	14	>	20	>		-	1				
			n a sui lingt an														
*Matrix: SS - Soil/Solid GW - Gro	undwater N	WV - Wa	steWate	r DW - D	rinking Water	OT - Other		_						pH	Ter	mp	
Remarks:														Flow	Oth	ier	
Relinquished by: (Signature) Date: Tir Relinquished by: (Signature) Date: Tir		Time:	ne: Received by: (Signature)					Samples retu				ned via: UPS Courier		Condition:	(lab use only)		
		Time:	IE: Received by: (Signature)						Ten	Temp:			tles Receive	ed: CoC Seals Intact: _	YNNA		
Relinquished by: (Signature) Da		ate:	Time:	Re	Received for lab by: (Signature)				Date:		Tim	e:	pH Checked:	NCF:			
SOIL GAS INVESTIGATION PURGE, SAMPLE & LEAK TEST - FIELD DATA SHEET

Project No.:	PURGE, SA						AMPLE & LEAK TEST - FIELD DATA SHEET 6 Liter Summa Purge Test Location:SUP-1						SOUFCE Environmer	Y group, ual Consul	inc. tants
Address:	4575 Tidew	ater Avenue:	Oakland C	•		_ Purge Method: _ Leak Test Compound : Elow Control Orifice (ml			<u>6L</u> Summa Canister : <u>Helium</u>						
Staff:	Eric Choi	ater Avenue,	, Oakialiu, C	,A											
Date:	1171	13		Tubing Siz	e (in):	3/16 ID; 1/4 (DD	or ornice (ini	Bore Hole Dia.	(in):NA					
Color Alton					1.	Purge Volume Calculation									
Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	Bore Hole Radius (inches)	Area of Bore Hole Radius (r2)	Length of Bore Hole Sand Pack (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (ml/min)	Est. Purge Time (min)	Inches of Mercury (5"/Liter)
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	1	16.387	2.047	0.002	100	0.02	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	3	16.387	6.142	0.006	100	0.06	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	7	16.387	14.331	0.014	100	0.14	0 1
(a) 3.141593(Pi) * tubi Purge volume for the l (b) 3.141593(Pi) * bord	ng radius r ^z * bore hole can e hole r ^z * inc	inches of tub be calculated thes of bore h Purgin	bing * 16.387 d as follow: hole * 16.387 hg & Sam	0641(conve 0641(conve pling Data	rsion of cubic i rsion of cubic i a	nches to millili	iters) ters)		a + b * number of Estimated purge total purge volur Leak Tests	of tubing/bore hole volu e time can be calculate me (ml) ÷ purge rate (n Data	ume to be purge d as follows: nax of 167 ml/mi	d = total purge v in) Field Readi	olume	mation	
Calculated Total Purge Volume (ml)	Time Start Purging (24 hr)	Time Stop Purging (24 hr)	Initial & Final Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged (ml)	Time Start Sampling / (24 hr)	Time Stop Sampling (24 hr)	Final Vacuum Gauge Reading (Hg")	lso- propanol Applied (yes/no)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start Time/ Vacuum (Hg")	Vacuum Train Test Stop Time/ Vacuum (Hg")	Probe Install Date	Probe Install Time	Purge Volumes	Probe Depth (Feet)
2.047				-29/	1345	1351	-3	NO	B25/-26	B35/-29	- PASS			1	0.66
6.142	SUL	note	1	~ Kiml	1040	1040	0	NO	1054/-30	1104/-30	-AASS			3	0.66
14.331					-31)	0-	-s.ee	L nati	4	•				7	0.66
Notes:	- lab a pur	nstalle i ford efficient to de cn-si Le zed	nel us person and so the ther c usit	1920 1320	e 113 manie He V.riv	pin or st ss, on 8 to 1 failed on 0 20, 150 d	238 La La	3	Canist 251	ud, but barcheut Le Le Le Jace 3 L	sonthe The	232 6	21350	20	Zer2
0:\admin\forms\soil v	apor sampling fo	rm.xis		0	1			5114	All gov	De Value	n		Page	of	

SOIL GAS INVESTIGATION PURGE, SAMPLE & LEAK TEST - FIELD DATA SHEET

Project No.: 154.004.004 Facility Name: ABF Freight Address: 4575 Tidewater Avenue; Oakland, CA Staff: Eric Choi Date: ULT/US					Purge Test Location: SVP-2_ Purge Method: 6L Summa Canister Leak Test Compound : Helium Flow Control Orifice (ml/min): Approximately 100 ml/min 3/16 ID; 1/4 OD Bore Hole Dia. (in):NA					ml/min					
							Purge Vo	lume Calc	ulation			1.			
Inner Tubing Radius (inches)	Area of Inner s Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	Bore Hole Radius (inches)	Area of Bore Hole Radius (r2)	Length of Bore Hole Sand Pack (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (ml/min)	Est. Purge Time (min)	Inches of Mercury (5"/Liter)
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	1	16.387	2.047	0.002	100	0.02	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	3	16.387	6.142	0.006	100	0.06	0
0.094	0.009	0.375	4.5	2.047	1	1.000	0	0.000	7	16.387	14.331	0.014	100	0.14	0

Notes:

Purge volume for tubing can be calculated as follows:

(a) 3.141593(Pi) * tubing radius r² * inches of tubing * 16.3870641(conversion of cubic inches to milliliters)

Purge volume for the bore hole can be calculated as follow:

(b) 3.141593(Pi) * bore hole r² * inches of bore hole * 16.3870641(conversion of cubic inches to milliliters)

Total purge volume can be calculated as follows:

a + b * number of tubing/bore hole volume to be purged = total purge volume

Estimated purge time can be calculated as follows:

total purge volume (ml) + purge rate (max of 167 ml/min)

	Purging & Sampling Data								Leak Tests	Data	Field Readings / Information				
Calculated Total Purge Volume (ml)	Time Start Purging (24 hr)	Time Stop Purging (24 hr)	Initial & Final Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged (ml)	Time Start Sampling (24 hr)	Time Stop Sampling (24 hr)	Final Vacuum Gauge Reading (Hg")	lso- propanol Applied (yes/no)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start Time/ Vacuum (Hg")	Vacuum Train Test Stop Time/ Vacuum (Hg")	Probe Install Date	Probe Install Time	Purge Volumes	Probe Depth (Feet)
2.047														1	0.66
6.142	See 1	otes		~15ml	1020	1040	-3	NO	RASS	0955/-30	10051-30			3	0.66
14.331					-30	-3					,			7	0.66

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0 DLL 7 10 10 117 14% 10 1050 7.0% 12 1034 urce group, inc.

McCA 1534 WILLO Website: www. Teleph	AMPBEJ W PASS I mccampbe hone: (877)	LL AN ROAD / F <u>Il.com</u> / F 252-9262	ALYTICAL INC PITTSBURG, CA 94565 Email: main@mccampl 2 / Fax: (925) 252-9269 Bill To:	- 5-1701 bell.com	CHAIN OF CUSTODY RECORD TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY EDF Required? Coelt (Normal) No Write On (DW) No								
Common Pebra	Nc	Sec					Lab Use	Only		AS AD AND	24512		
company: (MI h	170	Uru	2 Grund,	Inc					Pr	essurizatio	on Gas		
Santa	Cr	50	CA - 95 E-Mail:	060	Pressurize	r	N2	Не					
Tele: (321)217(0-	-5101	(20)	Fax: ($(\beta <)$)]	710-51000									
Project #: 154			Project Name:		Helium Shroud SN#:								
Project Location:					Other:								
Sampler Signature:	ar tal				Notes:		11	Cool	1.1.20	mal	2,2		
Field Sample ID	Coll	ection	Conjeten SN#	Manifold / Sampler	Repeat Her	5%		,					
(Location)			Callister SIN#	Kit SN#	Analysis Requested	Indoor	Soil	Ca	nister Pres	ssure/Vacu	um		
2	Date	Time				Air	Gas	Initial	Final	Receipt	Final (nsi)		
SVP-1	VIAB	1345-	1351		He Quella CU2	X X 1 Street	where the second				([231)		
SUP-2	lah	1120-	ILMD		H. U. (H. (U.	ACTOR HIL	601		1.0	STUTION OF			
	, , .				16 T Pilati	100	-			ST. Street, N			
JAD-5					10-15 TPITOY	VOCS	~						
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SIP-1	Inh	112											
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xv run + tan					(Silver I ube)			1			S. S. S.		
01													
Belinguished By:	Date:	Time:	Received By:										
	Inh	1400	1400	1/	Temp (°C) :	Work Order	#:						
Belinquished By:	Date:	Time:	Received By:		Equipment Condition:								
Relinquished By:	Date:	Time:	Received By:	red By: Conc									

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Source group, inc.	Page of
Environmental Consultants 500 Chestnut Street, Suite 225 Santa Cruz. California 95060 v: 831.426.5600	FIELD DATA SHEET
Client: <u>ABFFreight</u> Job Address: <u>4575 Tide. Super</u> Weather Conditions: <u>Clear</u>	Project #: 154.004 Date: $2/8/13$ Personnel: EC+CO
Fouriement at Site:	
Arrival Time: 6:40	
Departure Time: 7, 20	
6:40 Open all wells and let e	ayvilibriale
Time WellID DTW TD 6:50 MW-1 4.22 18.2 6:55 MW-2 3.67 14.57 7:10 MW-3 3.98 9.75 7:15 MW-4 3.31 10.7	
7:20 (Jose Wells und leave	sile
	1 face
	Signature

ATTACHMENT F

Survey Data



Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076 Phone: (831) 724-2580 Fax: (831) 724-8025 e-mail: lee@midcoastengineers.com Richard A. Wadsworth Civil Engineer

Stanley O. Nielsen Land Surveyor

> Lee D. Vaage Land Surveyor

Jeff S. Nielsen Land Surveyor

LETTER OF TRANSMITTAL

To: Eric Choi Trinity Source Group, Inc. 500 Chestnut Street, Suite 225 Santa Cruz, CA 95060 Date: 11 January 2013

Job No.: 13001

Re: GeoTracker Report

We are transmitting herewith:

Survey Report for ABF Freight Systems Facility, 4575 Tidewater Avenue, Oakland, California TSG Project 154.004.005

Copy To:

Signed: Vaage, Land Surveyor

If enclosures are not as noted, kindly notify us at once.



Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076 phone: (831) 724-2580 fax: (831) 724-8025 e-mail: lee@midcoastengineers.com Richard A. Wadsworth Civil Engineer

> Stanley O. Nielsen Land Surveyor

> > Lee D. Vaage Land Surveyor

Jeff S. Nielsen Land Surveyor

January 11, 2013

Eric Choi Trinity Source Group, Inc. 500 Chestnut Street, Suite 225 Santa Cruz, CA 95060

Re: ABF Freight Systems Facility, 4575 Tidewater Avenue, Oakland, California; TSG Project 154.004.005, MCE Job No. 13001

Dear Mr. Choi,

As you requested, on January 9 we surveyed the two new monitoring wells and two additional wells we found located at the referenced site. Our findings are shown on the attached sheet expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (toc) and a cross chiseled in the north rim of the standard box (tob).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using NGS/NOAA control points AA3814 (HPGN D CA 04 FH) and HT3553 (941 4750 R TIDAL) as published and listed on their website. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Leica iRover (Code LIROV).

The benchmark used for this survey is NGS HT3553, as mentioned above, a disk on a copper-clad steel rod located south of Hornet Avenue in Alameda at the old U.S. Naval Air Station. Elevation = 11.67feet, NAVD 88 datum.

Please let me know if you have questions or need additional information.

Yours truly,

Lee D. Vaage



ABF FREIGHT SYSTEMS FACILITY 4575 Tidewater Avenue Oakland, California

TSG Project 154.004.005

Project : 13001 User name MCE Date & Time 9:57:33 AM 1/11/2013 Coordinate System US State Plane 1983 Zone California Zone 3 0403 Project Datum NAD 1983 (Conus) Vertical Datum NAVD 88 Coordinate Units US survey feet Distance Units US survey feet Elevation Units US survey feet

Point Number	Northing	Easting	Elevation	Description
127	2104640.93	6063709.08	11.12	MW-1toc
128	2104641.26	6063709.26	11.56	MW-1tob
129	2104632.50	6063666.26	11.17	MW-2toc
130	2104632.82	6063666.54	11.60	MW-2tob
105	2104613.41	6063715.13	10.96	MW-3toc
106	2104613.80	6063715.08	11.11	MW-3tob
103	2104698.64	6063724.86	11.60	MW-4toc
104	2104698.96	6063725.08	11.92	MW-4tob

ABF FREIGHT SYSTEMS FACILITY 4575 Tidewater Avenue Oakland, California

TSG Project 154.004.005

Project : 13001 User name MCE Date & Time 9:57:33 AM 1/11/2013 Coordinate System US State Plane 1983 Zone California Zone 3 0403 Project Datum NAD 1983 (Conus) Vertical Datum NAVD 88 Coordinate Units US survey feet Distance Units US survey feet Elevation Units US survey feet

Point Number	Latitude	Longitude	Elevation	Description
127	37.762368645°N	122,222713306°W	11.12	MW-1toc
128	37.762369579°N	122.222712713°W	11.56	MW-1tob
129	37.762343358°N	122.222860869°W	11.17	MW-2toc
130	37.762344245°N	122.222859916°W	11.60	MW-2tob
105	37.762293401°N	122.222690622°W	10.96	MW-3toc
106	37.762294460°N	122.222690825°W	11.11	MW-3tob
103	37.762527927°N	122.222662404°W	11.60	MW-4toc
104	37.762528818°N	122.222661667°W	11.92	MW-4tob

	A	В	C	D	E	F	G	Н	1	J	K	L
1	ABF FREIGHT	SYSTEM	SFAC	CILITY								
2	4575 Tidewater	Avenue										
3	Oakland, Califo	ornia								-		
4								-				
5	TSG Project 15	4.004.005	5									
6												
7	Project : 13001											
8	User name	MCE	Da	te & Time	9:57:33 AM 1/11	/2013						
9	Coordinate S	System	US St	ate Plane 19	83 Zone	California Zone 3	0403					
10	Project Datu	im NAD	1983	(Conus)								
11	Vertical Date	um NAV	D 88									
12	Coordinate l	Jnits US	Surv	ey feet								
13	Distance Un	its US s	urvey	feet								
14	Elevation Ur	nits US s	survey	/ feet								
15												
16		MW-1	MW	01/09/2013	37.7623686	-122.2227133	CGPS	NAD83	1	Mid Coast Engineers	LIROV	top of casing
17		MW-2	MW	01/09/2013	37.7623434	-122.2228609	CGPS	NAD83	1	Mid Coast Engineers	LIROV	top of casing
18		-							1			
19		MW-3	MW	01/09/2013	37.7622934	-122.2226906	CGPS	NAD83	1	Mid Coast Engineers	LIROV	top of casing
20		MW-4	MW	01/09/2013	37.7625279	-122.2226624	CGPS	NAD83	1	Mid Coast Engineers	LIROV	top of casing

	A B	C	D	E	F	G	Н	1	J
1	ABF FREIGHT SYSTE	MS FACILITY							
2	4575 Tidewater Avenu	Ie							
3	Oakland, California								
4									
5	TSG Project 154.004.0	05							
6									
7	Project : 13001		-						
8	User name MCE	Date & Tin	ne 9:	57:33 A	M 1/	11/20	013		
9	Coordinate System	US State Plan	ne 1983	3 Z	Zone	Ca	alifornia Zone 3 0403		
10	Project Datum NA	D 1983 (Conus)						
11	Vertical Datum N/	AVD 88							
12	Coordinate Units	US survey feet							
13	Distance Units US	S survey feet				_			
14	Elevation Units U	S survey feet							
15									
16	MW-1	01/09/2013	11.12	CGPS	88	0.5	Mid Coast Engineers	-0.44	BM NGS HT3553 EL=11.67 FEET
17	MW-2	01/09/2013	11.17	CGPS	88	0.5	Mid Coast Engineers	-0.43	BM NGS HT3553 EL=11.67 FEET
18									
19	MW-3	01/09/2013	10.96	CGPS	88	0.5	Mid Coast Engineers	-0.15	BM NGS HT3553 EL=11.67 FEET
20	MW-4	01/09/2013	11.60	CGPS	88	0.5	Mid Coast Engineers	-0.32	BM NGS HT3553 EL=11.67 FEET

MAINTENANCE BUILDING CONCRETE MW-4 ABOVE GROUND STORAGE TANK Ø \oplus ⊕ MW-2 ΜŴ–1 \oplus MW-3 NOTES: 1. COORDINATES COORDINATE SYS 2. BENCHMARK ROD SOUTH OF OLD U.S. NAVAL ELEVATION = 11.3. SURVEYED A GROUP IN JANUA MONITORING WELL LOCATION MAP FOR MCE ABF FREIGHT SYSTEMS FACILITY MID COAST ENGINEERS CIVIL ENGINEERS AND LAND SURVEYORS 70 PENNY LANE SUITE A WATSONVILLE, CA 95076 (831) 724–2580 4575 TIDEWATER AVENUE Ο OAKLAND, CALIFORNIA

S ARE BASED ON THE CALIFORNIA STEM, ZONE III, NAD 83. IS NGS HT3553, A DISK ON STEEL HORNET AVENUE IN ALAMEDA AT THE AIR STATION			
67 FEET, NAVD 88 DATUM. T THE REQUEST OF TRINITY SOURCE ARY 2013, PROJECT 154.004.005.	ARE BASED ON THE CA EM, ZONE III, NAD 83. S NGS HT3553, A DISK DRNET AVENUE IN ALAM IR STATION. 7 FEET, NAVD 88 DATU THE REQUEST OF TRINI Y 2013, PROJECT 154.0	ALIFORNIA ON STEEL IEDA AT THE IM. ITY SOURCE 204.005.	

	1"=50"
IN FEET	јов no. 13001
) 100	date: JAN. 11, 2013
	SHEET: 1 OF 1

GEOTRACKER ESI

UPLOADING A GEO_XY FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: Report Title: Facility Global ID: Facility Name: File Name: Organization Name: Username: IP Address: Submittal Date/Time: Confirmation Number: GEO_XY XY Survey Data for MW-1,2,3,4 T0600100018 ABF FREIGHT SYSTEMS GEO_XY.zip Trinity Source Group, Inc. TRINITY SOURCE GROUP 69.198.129.110 1/29/2013 3:23:27 PM 8603469789

VIEW GEO_XY SUBMITTAL DATA ON MAP

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GEOTRACKER ESI

UPLOADING A GEO_Z FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: Report Title: Facility Global ID: Facility Name: File Name: Organization Name: Username: IP Address: Submittal Date/Time: Confirmation Number: GEO_Z Z Survey Data for MW-1,2,3,4 T0600100018 ABF FREIGHT SYSTEMS GEO_Z.zip Trinity Source Group, Inc. TRINITY SOURCE GROUP 69.198.129.110 1/29/2013 3:31:42 PM 8834140837

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ATTACHMENT G

Certified Analytical Reports, Chain of Custody and Geotracker Upload Confirmation



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859 Tax I.D. 62-0814289

Est. 1970

David Reinsma Trinity Source Group - Santa Cruz, CA 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060

Report Summary

Monday December 31, 2012

Report Number: L612046 Samples Received: 12/19/12 Client Project: 154.004.007

Description: 154-ABF Oakland

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

Entire Report Reviewed By:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	ebanon Rd. Let, TN 371 58-5858 57-5859 5) 758-5859	22
L·A·B S·C·I·E·N·C·E·S						Tax I.D.	. 62-081428	19
YOUR LAB OF CHOICE						Est. 197	70	
	DEDUDL	OF ANALY	CTC.					
David Reinsma Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	KEPOKI	OF ANALI	515	Dece	ember 31,201	2		
Date Received : December 19, 2	012			ESC	Sample # :	L612046	-01	
Description : 154-ABF Oakland				Site	e ID :			
Sample ID : MW-4 3 FT				Deee		F4 004 00	7	
Collected By : EC / JG Collection Date : 12/17/12 00:00				PIO	Ject # • 1	54.004.00	/	
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	85.5	0.0333	0.100	00		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	U	0.11	0.58	mg/kg		8015D/GR	12/20/12	5
a,a,a-Trifluorotoluene(FID)	92.8			% Rec.		602/8015	12/20/12	5
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Pecovery	5.4	3.7	23.	mg/kg	J	8015	12/31/12	5
o-Terphenyl	36.7			% Rec.	J2	8015	12/31/12	5
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene	U U U U U	0.0014 0.0017 0.0013 0.0015 0.0022 0.0022	0.0058 0.0058 0.0058 0.0058 0.029 0.029	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5
Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether	0 0 0 0 0 0 0 0 0 0 0 0	0.0035 0.0012 0.24 0.0020 0.0011 0.021 0.010 0.0014	0.018 0.0058 0.58 0.0058 0.0058 0.29 0.029 0.029	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5 5 5 5 5
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	107. 115. 93.6			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	5 5 5

XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	Ebanon Rd. et, TN 371 88-5858 57-5859 5) 758-5859	22
L'A'B SICHLEINICIEIS						Tax I.D.	62-081428	9
YOUR LAB OF CHOICE						Est. 197	0	
	REDORT	OF ANALY	'STS					
David Reinsma Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060			515	Dece	ember 31,201	.2		
				ESC	Sample # :	L612046	-02	
Date Received : December 19, Description : 154-ABF Oakland	2012 d							
Sample ID : MW-4 10 FT				Site	e ID :			
				Pro	ject # : 1	54.004.00	7	
Collected By : EC / JG Collection Date : 12/17/12 00:00								
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.3	0.0333	0.100	90		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	41.	0.11	0.65	mg/kg		8015D/GR	12/23/12	5
a,a,a-Trifluorotoluene(FID)	96.4			% Rec.		602/8015	12/23/12	5
Diesel Range Organics California C10-C22 Hydrocarbons	48.	0.73	5.2	mg/kg		8015	12/31/12	1
o-Terphenyl	36.8			% Rec.	J2	8015	12/31/12	1
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether Surrogate Recovery	U U U 0.50 U U U U U U U U U U	$\begin{array}{c} 0.027\\ 0.034\\ 0.026\\ 0.030\\ 0.044\\ 0.043\\ 0.070\\ 0.025\\ 4.9\\ 0.040\\ 0.021\\ 0.42\\ 0.20\\ 0.027\\ \end{array}$	$\begin{array}{c} 0.13\\ 0.13\\ 0.13\\ 0.65\\ 0.65\\ 0.39\\ 0.13\\ 13.\\ 0.13\\ 0.13\\ 6.5\\ 0.65\\ 0.13\\ \end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	J	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	100 100 100 100 100 100 100 100 100 100
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	109. 114. 105.			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	100 100 100

Results listed are dry weight basis. U = ND (Not Detected) MDL = Minimum Detection Limit = LOD = TRRP SDL RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL Note: This report shall not be reproduced, except in full, without the written approval from ESC. The reported analytical results relate only to the sample submitted Reported: 12/31/12 13:42 Printed: 12/31/12 13:43 L612046-02 (DROCA) - low surrogate confirms with first extraction L612046-02 (V82600XY) - Non-target compounds too high to run at a lower dilution.

XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	ebanon Rd. Let, TN 371 58-5858 57-5859 5) 758-5859	22
LAB SCILENCES						Tax I.D.	. 62-081428	9
YOUR LAB OF CHOICE						Est. 197	70	
		OF ANALY	OTO					
David Reinsma Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REPORT	OF ANALI	515	Dece	ember 31,201	2		
Date Received : December 19, 2	012			ESC	Sample # :	L612046	-03	
Description · 154-ABF Oakiand				Site	e ID :			
Sample ID : MW-3 3 FT				Pro	iect # : 1	54 004 00	7	
Collected By : EC / JG Collection Date : 12/17/12 00:00				110		51.001.00	,	
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	84.3	0.0333	0.100	00		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	U	0.11	0.59	mg/kg		8015D/GR	12/22/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	93.4			% Rec.		602/8015	12/22/12	5
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Recovery	U	3.7	24.	mg/kg	0	8015	12/27/12	5
o-Terphenyl	57.0			% Rec.		8015	12/27/12	5
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total	U U U U U U U	0.0014 0.0017 0.0013 0.0015 0.0022 0.0022 0.0035	0.0059 0.0059 0.0059 0.0059 0.030 0.030 0.030 0.018	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5
Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether	0 0 0 0 0 0 0 0 0	0.0012 0.24 0.0020 0.0011 0.021 0.010 0.0014	0.0059 0.59 0.0059 0.0059 0.30 0.030 0.030	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	108. 113. 100.			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	5 5 5

XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	ebanon Rd. Let, TN 371 58-5858 57-5859 5) 758-5859	.22
L+A+B S+C+I+E+N+C+E+S						Tax I.D.	. 62-081428	39
YOUR LAB OF CHOICE						Est. 197	70	
		00 331313	ata					
David Reinsma Trinity Source Group – Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REPORT	OF ANALY	515	Dece	ember 31,201	2		
				ESC	Sample # :	L612046	-04	
Date Received : December 19, Description : 154-ABF Oaklan	2012 d			Site				
Sample ID : MW-3 7 FT				SILC				
Collected By : EC / JG Collection Date : 12/17/12 00:00				Pro	ject # : 1	54.004.00	7	
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.6	0.0333	0.100	00		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	U	0.11	0.62	mg/kg		8015D/GR	12/22/12	5
a,a,a-Trifluorotoluene(FID)	93.2			% Rec.		602/8015	12/22/12	5
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Perovery	8.1	0.73	5.0	mg/kg		8015	12/31/12	1
o-Terphenyl	52.3			% Rec.		8015	12/31/12	1
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total	U U U U U U U	0.0014 0.0017 0.0013 0.0015 0.0022 0.0022 0.0035	0.0062 0.0062 0.0062 0.0062 0.031 0.031 0.019	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5
D1-1sopropy1 ether Ethanol Ethyl tert-buty1 ether Methyl tert-buty1 ether t-Amy1 Alcohol tert-Buty1 alcohol tert-Amy1 Methy1 Ether	ט ט ט ט ט ט	0.0012 0.24 0.0020 0.0011 0.021 0.010 0.0014	0.0062 0.62 0.0062 0.0062 0.31 0.031 0.0062	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	109. 114. 98.1			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	5 5 5

XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	ebanon Rd. iet, TN 371 58-5858 57-5859 5) 758-5859	22
L·A·B S·C·I·E·N·C·E·S						Tax I.D.	. 62-081428	9
YOUR LAB OF CHOICE						Est. 197	70	
		~~						
David Reinsma Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REPORT	OF ANALY	212	Dece	ember 31,201	2		
Date Received : December 19, 20)12			ESC	Sample # :	L612046	-05	
Description - 154-ABF Oakland				Site	e ID :			
Sample ID : B-12 3 FT				Pro	iect # : 1	54.004.00	7	
Collected By : EC / JG Collection Date : 12/17/12 00:00				110				
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	86.9	0.0333	0.100	00		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	0.28	0.11	0.58	mg/kg	J	8015D/GR	12/23/12	5
a,a,a-Trifluorotoluene(FID)	98.4			% Rec.		602/8015	12/23/12	5
Diesel Range Organics California C10-C22 Hydrocarbons	U	3.7	23.	mg/kg	0	8015	12/27/12	5
o-Terphenyl	54.4			% Rec.		8015	12/27/12	5
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl_tert-butyl_ether	U U U U U U U U U U U	$\begin{array}{c} 0.0014\\ 0.0017\\ 0.0013\\ 0.0015\\ 0.0022\\ 0.0022\\ 0.0035\\ 0.0012\\ 0.24\\ 0.0020\\ \end{array}$	0.0058 0.0058 0.0058 0.029 0.029 0.017 0.0058 0.58 0.0058	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether	บ บ บ บ	0.0011 0.021 0.010 0.0014	0.0058 0.29 0.029 0.0058	mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	108. 112. 98.6			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	5 5 5

XESC						12065 Le Mt. Juli (615) 75 1-800-76 Fax (615	banon Rd. et, TN 371 8-5858 7-5859 5) 758-5859	22
L·A·B S·C·I·E·N·C·E·S						Tax I.D.	62-081428	9
YOUR LAB OF CHOICE						Est. 197	0	
		OF ANALY	OT C					
David Reinsma Trinity Source Group – Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REPORT	OF ANALI	515	Dece	ember 31, 20	12		
Date Received : December 19, 2 Description : 154-ABE Oakland	2012			ESC	Sample # :	L612046	-06	
	~			Site	e ID :			
Sample ID : B-12 6 FT				Pro-	iect # : 1	54.004.00	7	
Collected By : EC / JG Collection Date : 12/17/12 00:00				-				
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	72.7	0.0333	0.100	00		2540G	12/24/12	1
TPH (GC/FID) Low Fraction	U	0.11	0.69	mg/kg		8015D/GR	12/22/12	5
a,a,a-Trifluorotoluene(FID)	93.1			% Rec.		602/8015	12/22/12	5
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Recovery	U	150	1100	mg/kg	0	8015	12/27/12	200
o-Terphenyl	66.5			% Rec.		8015	12/27/12	200
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0014 0.0017 0.0013 0.0022 0.0022 0.0035 0.0012 0.24 0.0020 0.0011 0.021 0.010 0.0014	$\begin{array}{c} 0.0069\\ 0.0069\\ 0.0069\\ 0.034\\ 0.034\\ 0.021\\ 0.0069\\ 0.69\\ 0.069\\ 0.0069\\ 0.34\\ 0.034\\ 0.034\\ 0.0069\end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	109. 116. 97.4			% Rec. % Rec. % Rec.		8260B 8260B 8260B	12/20/12 12/20/12 12/20/12	5 5 5

XESC						120 Mt. (61 1-8 Fax	65 Lebanon Juliet, T1 5) 758-5858 00-767-5859 : (615) 758-	Rd. N 37122 8 9 -5859
L·A·B S·C·I·E·N·C·E·S						Tax	I.D. 62-08	814289
YOUR LAB OF CHOICE						Est	. 1970	
David Reinsma Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REP	ORT OF AN	ALYSIS	I	December 31,	2012		
Date Received : December 19, 201	2			F	SC Sample #	: L61	2046-07	
				S	Site ID :			
Sample ID : B-12				I	Project # :	154.00	4.007	
Collected By : EC / JG Collection Date : 12/17/12 00:00								
Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	44. 100.	31.	100	ug/l % Rec.	J	8015D/G 8015D/G	12/24/12 12/24/12	1
Volatile Organics Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether tert-Butyl alcohol tert-Amyl Methyl Ether Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	U U 0.63 11. U 1.9 U U U U U U U U U 99.8 101. 111.	$\begin{array}{c} 0.33\\ 0.38\\ 0.36\\ 0.38\\ 0.44\\ 0.78\\ 1.1\\ 0.32\\ 42.\\ 0.27\\ 0.37\\ 2.4\\ 0.26 \end{array}$	1.0 1.0 1.0 5.0 5.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	J	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Recovery o-Terphenyl	440 95.8	25.	100	ug/l % Rec.		8015 8015	12/22/12	1

U = ND (Not Detected) RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL MDL = Minimum Detection Limit = LOD = TRRP SDL Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/31/12 13:42 Printed: 12/31/12 13:43

ESC						12065 I Mt. Jul (615) 7 1-800-7 Fax (61	ebanon Rd. iet, TN 37 58-5858 67-5859 5) 758-5859	9
L·A·B S·C·I·E·N·C·E·S						Tax I.D	0. 62-08142	89
YOUR LAB OF CHOICE						Est. 19	70	
	REPORT	OF ANALY	SIS					
David Reinsma Trinity Source Group - Santa Cruz 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	1			Dece	ember 31,201	2		
Date Received : December 19, Description : 154-ABF Oakla	2012 nd			ESC	Sample # :	L612040	5-08	
Sample ID : DRIM-COMP				Site	e ID :			
				Pro	ject # : 1	54.004.00	07	
Collected By : EC / JG Collection Date : 12/17/12 00:0	0							
Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	81.8	0.0333	0.100	00		2540G	12/24/12	2 1
Diesel Range Organics California C10-C22 Hydrocarbons Surrogate Recovery	7.0	3.7	24.	mg/kg	J	8015	12/31/12	2 5
0-Terphenyi	30.0			% Rec.	02	0010	12/31/12	. 5
Volatiles - Oxygenates Benzene 1,2-Dibromoethane 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether t-Amyl Alcohol tert-Butyl alcohol tert-Amyl Methyl Ether Surrogate Recovery Toluene-d8	U U U 0.0052 U U U U U U U U U U U U U U U U U U U	0.0014 0.0017 0.0013 0.0015 0.0022 0.0022 0.0035 0.0012 0.24 0.0020 0.0011 0.021 0.021 0.010 0.0014	$\begin{array}{c} 0.0061\\ 0.0061\\ 0.0061\\ 0.0061\\ 0.030\\ 0.030\\ 0.018\\ 0.0061\\ 0.61\\ 0.0061\\ 0.30\\ 0.030\\ 0.030\\ 0.0061\\ \end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	J	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12 12/20/12	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Dibromofluoromethane 4-Bromofluorobenzene	109. 114. 98.2			% Rec. % Rec.		8260B 8260B	12/20/12	2 5 2 5

Attachment A List of Analytes with QC Qualifiers

Sample	Work	Sample		Run	
Number	Group	Type	Analyte	ID	Qualifier
T C1 00 4 C 01					
L612046-01	WG630206	SAMP	C10-C22 Hydrocarbons	R2495857	J
	WG630206	SAMP	o-Terphenyl	R2495857	J2
L612046-02	WG630206	SAMP	o-Terphenyl	R2495857	J2
	WG629097	SAMP	Naphthalene	R2488217	J
L612046-03	WG629184	SAMP	C10-C22 Hydrocarbons	R2493759	0
L612046-05	WG629184	SAMP	C10-C22 Hydrocarbons	R2493759	0
	WG629727	SAMP	TPH (GC/FID) Low Fraction	R2492325	J
L612046-06	WG629184	SAMP	C10-C22 Hydrocarbons	R2493759	0
L612046-07	WG629586	SAMP	TPH (GC/FID) Low Fraction	R2492277	J
	WG629106	SAMP	Ethylbenzene	R2487917	J
	WG629106	SAMP	Xylenes, Total	R2487917	J
L612046-08	WG630206	SAMP	C10-C22 Hydrocarbons	R2495857	J
	WG630206	SAMP	o-Terphenyl	R2495857	J2
	WG629097	SAMP	Naphthalene	R2488217	J

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy	-	The relationship of the observed value of a known sample to the
		true value of a known sample. Represented by percent recovery and
		relevant to samples such as: control samples, matrix spike recoveries,
		surrogate recoveries, etc.

- Precision The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 12/31/12 at 13:43:10

TSR Signing Reports: 358 R5 - Desired TAT

 $\rm QC2MODCN$ and EDD - Geotracker EDF. Log all full-scan VOC waters as V8260LL. Log PAHs as PAHSIM. Log DRO as DROCA. All samples get MDL/RDL reporting.

Sample:	L612046-01	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-02	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-03	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-04	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-05	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-06	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-07	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												
Sample:	L612046-08	Account:	TRINITYSCCA	Received:	12/19/12	09:30	Due	Date:	12/27/12	00:00	RPT	Date:	12/31/12	13:42
DROCA =	Silica Gel	Cleanup												

Trinity Source (nc	Bilting Informat	ion:				Ana	lysis/C	ontainer/f	Preservative	_	C080	hain of Custody
500 Chestnut S Santa Cruz, CA	St. ste 2 95060	25	Frinity Source Group, Inc. 500 Chestnut St. Ste 225 Santa Cruz, CA 95060					- - - - - - -	EDC,-8260				₩E	SC
		R	eport to:	Dave Re	einsma				EDB,				L-А-В 5-С- 12065 Leba	INE-NOCES
		E	mail to:	abstrinity@	gmail.com	ı			AME			1	MC Juner,	IN 37122
Project 154-A	BF Oakland	· · · ·	City Sate Collected	Oakla	and, CA			015	E,T				Phon e: (800 Phone: (616) 767-5859
Phone: 831.426.5600 FAX: 831.426.5602	Client Project 154.	#: 004.007	ESC Key					eanup 8	PE, ETI	•		-	Fax: (615) 758-5859
Collected by: EC/JG	Site/Facility II)#:	P.O.#:					el Cle						
Collected W (signature):	Rush? (La	ab MUST Be	Notified)	Date Resul	ts Needed:			Si Ge	TBA	826(CoCode	(lab use only)
un.	N	ame Day lext Day wo Day		Email?	No_Yes	No. of	0 8015	sel w/S	MTBE,	alene-			Template/Prelogin	
(Immediately Packed on Ice N Y	<u> </u>	hree Dav			No_Yes	Cntrs	Hgr	Hdie	Ж	phtt 		1	Shipped Via:	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	ļ	Ц Ц	ЧТ	BT	Nap			Remarks/Contaminant	Sample # (lab only)
MW-4 @ 3'	Grab	ss	3'	12.17.12		1	X	Х	Х	х				412846-01
MW-4 @ 10'	Grab	SS	10'	12.17.12		1	X	Х	X	X :			L	61204602
MW-3 @ 3'	Grab	SS	3'	12.17.12		1	X	Х	Х	X				-3
<u>MW-3@€'`Ţ'</u>	Grab	SS	7'5	12.17.12		1	Х	Х	Х	x				٥٧
B-12 @ 3*	Grab	SS	3'	12.17.12		1	Х	Х	х	x				5
B-12 @ 6'	Grab	SS	6'	12.17.12		1	X	X	X	X				٥L
B-12	Grab	GW		12.17.12		Øś	X	X	Х	X				5
Drum-Comp	Comp	SS		12.17.12		1		χ	χ					a
*Matrix: \$\$ - Soil/Solid GW - G	roundwater WW	 - WasteWate	er DW - Drini	king Water C	OT - Other		. <u> </u>					pH	Ter	
Rotrfarky:]					- 8017	23	25	6	6-	75-9		Flow	Ot	er
Reinedistrid by Signature)	H61 12-1		C Receiv	red by: (Signa	ture)			_₹_	San	ples retur	ned via: □ U Courier □	PS	Condition:	(lab use only)
Relinquished by: (Signature)	Date	: Time	Receiv	ed by: (Signa	ture)				Теп	30	Bottles F	Receive 3	d: CoC Seals Intact: _	YNNA
Relinquished by: (Signature)	Date	: Time	: Recei	ved for lab by	y: (Signature		~*		Dat 12	e: -/9-)7	Time:	۔ مرج	pH Checked:	NCF:
			¢	<u> </u>	1/1				11-2-			<u>-</u>	, .	1



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859 Tax I.D. 62-0814289

Est. 1970

Eric Choi Trinity Source Group - Santa Cruz, CA 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060

Report Summary

Wednesday January 16, 2013

Report Number: L614282 Samples Received: 01/08/13

Client Project: 154.001.001

Description: ABF Freight Systems Inc.

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

red Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Ja

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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XESC						120) Mt. (61) 1-8) Fax	65 Lebanon Juliet, TN 5) 758-5858 00-767-5859 (615) 758-	Rd. 37122 5859
						Tax	I.D. 62-08	14289
YOUR LAB OF CHOICE						Est	. 1970	
Eric Choi Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REP	ORT OF AL	VALYSIS	i	January 16, 2	2013		
Date Received : January 08, 20 Description : ABF Freight Syst)13 :ems Inc.			1	ESC Sample #	: L614	4282-01	
Sample ID : MW-3				2	Site ID :			
Collected By : Bill Rice Collection Date : 01/07/13 12:15]	Project # :	154.003	1.001	
Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPH - Oil & Grease	U	720	10000	ug/l		1664A	01/08/13	1
TPH (GC/FID) Low Fraction	43.	31.	100	ug/l	JJ5	8015D/G	01/09/13	1
<pre>a,a,a-Trifluorotoluene(FID)</pre>	97.8			% Rec.		8015D/G	01/09/13	1
Volatile Organics Benzene Ethylbenzene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether tert-Butyl alcohol tert-Amyl Methyl Ether	ប ប ប ប ប ប ប ប ប ប ប ប ប ប ប ប ប ប ប	0.33 0.38 0.78 1.1 0.32 42. 0.27 0.37 2.4 0.26	$ \begin{array}{c} 1.0\\ 5.0\\ 3.0\\ 1.0\\ 1.0\\ 1.0\\ 5.0\\ 1.0\\ 1.0\\ 5.0\\ 1.0\\ \end{array} $	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13	1 1 1 1 1 1 1 1
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	107. 112. 94.7			% Rec. % Rec. % Rec.		8260B 8260B 8260B	01/10/13 01/10/13 01/10/13	1 1 1
Diesel Range Organics California C10-C22 Hydrocarbons C22-C32 Hydrocarbons C32-C40 Hydrocarbons Surrogate Recovery o-Terphenyl	300 U U 59.3	33. 33. 33.	100 100 100	ug/l ug/l ug/l % Rec.		3511/80 3511/80 3511/80 3511/80	01/14/13 01/14/13 01/14/13 01/14/13	1 1 1
<pre>Polynuclear Aromatic Hydrocarbons Anthracene Acenaphthene Acenaphthylene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene</pre>	U 0.18 U 0.092 U U U U U U U U 0.32 U	0.066 0.041 0.054 0.079 0.079 0.096 0.13 0.072 0.023 0.082 0.082 0.045 0.037	$\begin{array}{c} 0.25\\$	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	J J	8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S	01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

U = ND (Not Detected) RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/16/13 05:51 Printed: 01/16/13 05:51

ELANB SICILIEINICIEIS						120 Mt. (61 1-8 Fax Tax	65 Lebanon Juliet, TI 5) 758-5853 00-767-5853 (615) 758 I.D. 62-03	Rd. N 37122 3 -5859 314289	
YOUR LAB OF CHOICE						Est	. 1970		
Eric Choi Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REP	ORT OF AN	ALYSIS		January 16,	2013			
Date Received : January 08, 20 Description : ABF Freight Syste	13 ems Inc.				ESC Sample #	: L61	4282-01		
Sample ID : MW-3					Site ID :				
Collected By : Bill Rice Collection Date : 01/07/13 12:15					Project # :	154.00	1.001		
Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.	
Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene 2-Chloronaphthalene Surrogate Recovery	4.3 0.12 U 2.2 1.2 U	0.062 0.092 0.078 0.094 0.078 0.082	1.3 0.25 0.25 1.3 1.3 1.3	ug/l ug/l ug/l ug/l ug/l	J	8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S	01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13	5 5 5 5 5 5 5	
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	80.5 63.8 83.8			% Rec. % Rec. % Rec.		8270C-S 8270C-S 8270C-S	01/14/13 01/14/13 01/14/13	5 5 5	

U = ND (Not Detected) RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL MDL = Minimum Detection Limit = LOD = TRRP SDL Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC. . Reported: 01/16/13 05:51 Printed: 01/16/13 05:51

Page 3 of 7

XESC						120) Mt. (61) 1-8) Fax	65 Lebanon Juliet, Th 5) 758-5858 00-767-5859 (615) 758-	Rd. 37122 3 - 5859	
L·A·B S·C·I·E·N·C·E·S						Tax	I.D. 62-08	314289	
YOUR LAB OF CHOICE						Est	. 1970		
Eric Choi Trinity Source Group - Santa Cruz 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REP	ORT OF AI	NALYSIS		January 16, 2	2013			
Date Received : January 08, Description : ABF Freight S	2013 ystems Inc.				ESC Sample #	: L614	4282-02		
Sample ID : MW-4					Site ID :				
Collected By : Bill Rice Collection Date : 01/07/13 11:3	0				Project # :	154.003	1.001		
Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.	_
TPH - Oil & Grease	U	720	10000	ug/l		1664A	01/08/13	1	
TPH (GC/FID) Low Fraction	U	31.	100	ug/l		8015D/G	01/09/13	1	
a,a,a-Trifluorotoluene(FID)	97.0			% Rec.		8015D/G	01/09/13	1	
Volatile Organics Benzene Ethylbenzene Toluene Xylenes, Total Di-isopropyl ether Ethanol Ethyl tert-butyl ether Methyl tert-butyl ether tert-Butyl alcohol tert-Amyl Methyl Ether	U U U U U 2.1 U U	0.33 0.38 0.78 1.1 0.32 42. 0.27 0.27 0.37 2.4 0.26	1.0 1.0 5.0 3.0 1.0 1.0 1.0 5.0 1.0	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l		8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13 01/10/13	1 1 1 1 1 1 1 1 1	
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	104. 114. 97.2			<pre>% Rec. % Rec. % Rec.</pre>		8260B 8260B 8260B	01/10/13 01/10/13 01/10/13	1 1 1	
Diesel Range Organics California C10-C22 Hydrocarbons C22-C32 Hydrocarbons C32-C40 Hydrocarbons Surrogate Recovery o-Terphenyl	540 U U 82.3	33. 33. 33.	100 100 100	ug/l ug/l ug/l % Rec.		3511/80 3511/80 3511/80 3511/80	01/14/13 01/14/13 01/14/13 01/14/13	1 1 1	
Polynuclear Aromatic Hydrocarbons Anthracene Acenaphthene Acenaphthylene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene	U 0.37 U 0.095 U U U U U U U 0.26 U	$\begin{array}{c} 0.066\\ 0.041\\ 0.054\\ 0.062\\ 0.079\\ 0.096\\ 0.13\\ 0.072\\ 0.023\\ 0.082\\ 0.082\\ 0.045\\ 0.037\end{array}$	$\begin{array}{c} 0.25\\$	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	J	8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S	01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	

U = ND (Not Detected) RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL MDL = Minimum Detection Limit = LOD = TRRP SDL

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Reported: 01/16/13 05:51 Printed: 01/16/13 05:51

						120 Mt. (61 1-8 Fax Tax	65 Lebanon Juliet, TI 5) 758-585 00-767-585 (615) 758 I.D. 62-0	Rd. N 37122 3 -5859 314289	
Eric Choi Trinity Source Group - Santa Cruz, 500 Chestnut Street, Ste. 225 Santa Cruz, CA 95060	REP	PORT OF AN	ALYSIS	i	January 16,	Est 2013	. 1970		
Date Received : January 08, 20 Description : ABF Freight System Sample ID : MW-4 Collected By : Bill Rice Collection Date : 01/07/13 11:30	13 ems Inc.			I S I	ESC Sample # Site ID : Project # :	: L61	4282-02 1.001		
Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.	
Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene 2-Chloronaphthalene Surrogate Recovery Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	1.2 0.098 U 2.1 0.76 U 93.1 74.9 90.6	0.062 0.092 0.078 0.094 0.078 0.082	1.3 0.25 0.25 1.3 1.3 1.3	ug/l ug/l ug/l ug/l ug/l % Rec. % Rec. % Rec.	J J	8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S 8270C-S	01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13 01/14/13	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	

U = ND (Not Detected) RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL MDL = Minimum Detection Limit = LOD = TRRP SDL Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC. . Reported: 01/16/13 05:51 Printed: 01/16/13 05:51

Page 5 of 7

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L614282-01	WG631574	SAMP	TPH (GC/FID) Low Fraction	R2502439	JJ5
	WG631655	SAMP	Acenaphthene	R2505945	J
	WG631655	SAMP	Benzo(a)anthracene	R2505945	J
	WG631655	SAMP	Phenanthrene	R2505945	J
	WG631655	SAMP	2-Methylnaphthalene	R2505945	J
L614282-02	WG631655	SAMP	Benzo(a)anthracene	R2505945	J
	WG631655	SAMP	Naphthalene	R2505945	J
	WG631655	SAMP	Phenanthrene	R2505945	J
	WG631655	SAMP	2-Methylnaphthalene	R2505945	J

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 01/16/13 at 05:51:55

TSR Signing Reports: 358 R5 - Desired TAT

QC2MODCN and EDD - Geotracker EDF. Log all full-scan VOC waters as V8260LL. Log PAHs as PAHSIM. Log DRO as DROCA. All samples get MDL/RDL reporting.

Sample: L614282-01 Account: TRINITYSCCA Received: 01/08/13 09:00 Due Date: 01/15/13 00:00 RPT Date: 01/16/13 05:51 DROCAERLVI needs silica gel treatment. V82600XY = BTEXM + oxys. Sample: L614282-02 Account: TRINITYSCCA Received: 01/08/13 09:00 Due Date: 01/15/13 00:00 RPT Date: 01/16/13 05:51 DROCAERLVI needs silica gel treatment. V82600XY = BTEXM + oxys.
Trinity Source G	roup		Billing Informa	ition:				Ana	ilysis/	Contai	iner/Pr	'eserva	ative		Chain of Custody
500 Chestnut St Santa Cruz, CA,	., Ste 2 95060	225	Accounts Trinity Sou 500 Chest Santa Cru	Payable Irce Group nut Street, 3 z, CA 9506	Suite 225 D			- BT			el 2	ates/	5	₩ F	Page 1 of 1
-		R	teport to:	labstrinity@	gmail.cor	n	CL-BT	Amb - HCL		Vo Press	HCL Silica G	BE/Oxygen:	mi Amb - H	L·A·B S·C 12065 Let Mt Juliet	anon Road TN 37122
Project ABF Freigh	t Systems, Inc	 ;.	City/Sate Collected	Oakla	and, CA	<u> </u>	H · o	40ml	рНС	dr 1 - dr	Add F	TMX	40	Phone: (80	0) 767-5859
Phone: (831) 426-5600 FAX: (831) 426-5602	Client Project # 154.	≠ :	ESC Ke	y: TrinityS	CCA-154	001	10mlAml	Silica G	Oml Am	00ml Ar	L- Clr -	ort BTE	DB/ED(Phone: (6) Fax: (6)	5) 758-5858 5) 758-5859 5072
Collected by: Bill Rice	Site/Facility (D	#:	P.O.#:					1	4	1	1	y rep	ane/E	f	-013
Collected by (signature):	Rush? (La	b MUST Be	Notified)	Date Resul	ts Needed:	Na	5	5		Mix		<u>ы</u>	othale	CoCode	(lab use only)
Immediately Packed on Icc N Y	Ne Tw Th	vo Day ree Day	· · · 100% · · · .50% · · · 25%	Email?1 FAX? / _1	No Ľ Yes No_Yes	of	CAERL	CAERL		70 PAHS	OGHEX	OLL	Naj	Template/Prelogin	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	DRO	DRO	GRO	N82.	He	V826		Remarks/Contaminant	Sample # (lab only)
MW-3		60	-	1/7/13	1215	14	\mathbf{x}	 >	×	×-	×	>			L614747-01
MW-4		600	-	1/3/13	1130	14	\succ	~	λ		٢	7			n
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		···· ··· ··· ·				<u> </u>								·	
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		; ,													·
		· .										1			
		<u>.</u> .													
*Matrix: SS - Soil/Solid GW - Grou	indwater WW -	WasteWate	er DW - Drin	king Water O	T - Other		_,	·	12	17			pH	Te	mp
						48	15 9	0210	l~	1.2			Flow	Ot	ner
Relinguished by: (Signature)	Date:	2 <u>5</u> 3	Receiv	ed by: (Signat	lure)				Sam VFe	i ples n edEx	eturne	d via: urier		Condition:	(labuse only)
Relinquished by: (Signature)	Date:	Time:	Receiv	ed by: (Signal		0	۵		Tem	<u><u>8</u> 31°</u>		Bott	les Receive	ed: CoC Seels Intact: _	
Relinquished by: (Signature)	Date:	Time:	Recei	ved for lab by			Į)		Date	8-13		Time	ະ ດ ານລ	pH Checked:	NCF:
						Ĭ	-∀-		·+			1			



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

Trinity Source Group Inc	Client Project ID: #154.004; ABF Freight	Date Sampled: 12/17/12
500 Chestnut St. Ste. 225		Date Received: 12/17/12
	Client Contact: Dave Reinsma	Date Reported: 12/21/12
Santa Cruz, CA 95060	Client P.O.:	Date Completed: 12/21/12

WorkOrder: 1212454

December 21, 2012

Dear Dave:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#154.004; ABF Freight**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPI 1534 WILLOW PA Website: <u>www.mccam</u> Telephone: (1) Report To: Dawiel Rem Company: Tomity So 500 Chestrot Santa Croz, Ca Tele: (831) 426-56 Project #: 154.004 Project Location: H B 7 5	BELL ANA SS ROAD / PI <u>Inpbell.com</u> / E 877) 252-9262 SMGA OSCE (Street A 200	ALYTICAL INC. ITTSBURG, CA 94565 mail: main@mecampb / Fax: (925) 252-9269 Bill To: Tom Fax: (925) 252-9269 Bill To: Tom For For For For For For For For	-1701 ell.com 25 mity@gmail. 26-5602	CHAIT TURN AROUND TIM EDF Required? Coelt (Norr Pressurized	N OF C 1E mal) No By	USH 2 USH 2 Wr Lab Use	DDY R 4 HR 4 te On (DV Only	ECOR 18 HR W) No Pr	72 HR 5 D	on Gas	
Report To: David Rem Company: Tomity So 500 Chostnot Santa Croz, G Tele: (831) 426-56 Project #: 154.004 Project Location: 11 5075	sma street A DOD	Bill To: Trun Trup, Inc Suite 27 E-Mail: Lubstr Fax: (831)4 Project Name: A	ity 25 mity@gmail. 26-5602	Pressurized	I By	ab Use	Only	Pr	essurizatio	n Gas	
Company: Timity So 500 Chostnut Santa Cruz, G Tele: (83)) 426-56 Project #: 154.004 Project Location: 11 5075	Street A A Tidewa	E-Mail: Lubstr Fax: (831)4 Project Name: A	25 mity@gmail. 26-5602	Pressurized	By		Date	Pr	essurizatio	n Gas	
500 Chestrust Santa Cruz, Cr Tele: (831) 426-56 Project #: 154.004 Project Location: 11 1075	Street A- DOO Tidewa	E-Mail: Lubsty Fax: (831)4 Project Name: A	25 mity@gmail. 26-5602	Pressurized	By		Date				
Santa (502, G Tele: (83)) 426-56 Project #: 154.004 Project Location: 11 875	A- DO Tidewa	Fax: (831)4 Project Name: A	26-5602	com	Pressurized By Date N2 F						
Project #: 154.004 Project Location: 11 875	Tidew	Project Name: A	26-5602	and the second							
Project #: 154.004	Tidew	Project Name: A		Hallow Channel CN44		in second		100		diam'r	
Project Location: 11 127 5	Tidew		BF Freight	Henum Shroud SN#:							
TATIS		ater Ave ic	Jakland, CA	Other:							
Sampler Signature:	~~~		,	Notes: 10W1_	EVE	ELS	SIL				
Eald Samely ID	Collection		Marifeld (Samular	Detection Limits	POF	9-29	Bough	NJ, BE	Indere -	-2.8 g/	
(Location)		Canister SN#	Kit SN#	Analysis Requested	Indoor	Soil	Ca	nister Pre	ssure/Vacu	um	
Da	ate Time				Air	Gas	Initial	Final	Receipt	Final (psi)	
SUP-1 121	PINS: 102	S E=1210	syma	TPHQ+VO(5(TO-15)					1 A A		
SUP-1				He, O, CH, CO, 194	(OD)	%				1.40.2	
SUP-1 21	7123:1211	E: 310 Se	-bent Tube	Nuothnene (TO-17							
		L	BHL@Flo.	0 66.7 m/mm fo	5-1 he	205					
SVP-Z Z	PIRSIA1S	E:1220	suma	TPHat VOLS (TO-15)							
SVP-2				Hejo, CH4, CO2L	1946D)	90)					
SVP-2 2	AL S: 310	E: 410 Sor	port Tube	Naothalene (TO-17) 1						
		5	4L@ Flow (6. 7 ml/min for	Thour						
							11		1000	Cale Cale	
				Kun Helium 15	t an	d ca	11 1+	He			
Reliniquished By: Da	ate: Time:	Received By:		Pemp (°C) · W	ork Order	<i>#</i> .	P	5 7	5%		
Un K	PILLY		1	Equipment	ork order						
Relinquished By: Da	ate: Time:	Received By:	-	Condition:							
Relinquished By	2/12 ate: Time:	Received By:	11-6	Shipped Via:							

	bell Analytical,	Inc.			СН	AIN	1-0F-	CUS	TOD	r RE	COF	RD	Р	'age	1 of 1	1
Pittsburg, (925) 252	CA 94565-1701 -9262				W	orkO	rder: 12	212454	Cl	lientCo	de: TSO	GS				
		WaterTrax	WriteOn	EDF	E	xcel	E	QuIS	Email		HardCo	ру	ThirdPa	rty	□ J-flaợ	g
Report to:						Bi	ll to:					Reque	sted TAT:		5 da	ays
Dave Reinsm	a	Email: d	ar@tsgcorp.ne	et; labstrinity@gm	ail.com		Allan									
Trinity Source 500 Chestnut	e Group Inc : St, Ste. 225	cc: PO:					Trinity 5 500 Ch	Source G nestnut Si	Froup Inc t, Ste. 225	5		Date 1	Received:	1	12/17/2(012
Santa Cruz, ((831) 426-5600	CA 95060 FAX: (831) 486-5602	ProjectNo: #	154.004; ABF	Freight			Santa (afm@t	Cruz, CA sgcorp.ne	95060 et			Date I	Printed:	1	12/17/20)12
									Requeste	d Tests	(See leg	end be	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	6	7	8	9	10	11	12
1212454-001	SVP-1		Soil Gas	12/17/2012 12:10		A	A	A							<u> </u>	
1212454-002	SVP-1		Sorbent Tube	12/17/2012 13:10					4							

12/17/2012 12:20

Sorbent Tube 12/17/2012 14:10

3

8

Soil Gas

Test Legend:

1212454-003

1212454-004

1	HELIUM_LC_SOILGAS(%)
6	
11	

2	PRHELIUM SHROUD	
7		
12		

SVP-2

SVP-2

PRPUMP

А

4 TO17_ST(UGM3) 9

Α

5	
10	

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name:	Trinity Source Group	o Inc			Date a	nd Time Received:	12/17/2012	4:17:56 PM
Project Name:	#154.004; ABF Freig	ght			LogIn I	Reviewed by:		Maria Venegas
WorkOrder N°:	1212454	Matrix: Soil Gas/So	rbent Tu	ube	Carrier	: <u>Rob Pringle (M</u>	AI Courier)	
		<u>Cha</u>	<u>in of Cι</u>	ustody (COC) Informat	ion		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌			
Date and Time of	f collection noted by C	lient on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
			<u>Sample</u>	e Receipt Info	ormation			
Custody seals int	tact on shipping contai	iner/cooler?	Yes		No 🗌		NA 🗹	
Shipping contain	er/cooler in good cond	ition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌			
		Sample Pres	ervatio	n and Hold T	<u>[ime (HT) </u>	Information		
All samples recei	ived within holding time	e?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:			NA 🖌	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌	No VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pres	ervation?	Yes	✓	No			
Metal - pH accep	table upon receipt (pH	I<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes		No 🖌			

* NOTE: If the "No" box is checked, see comments below.

Comments:

	McCampbell And "When Quality Co	<u>unts''</u>	<u>al, Inc.</u>	1: Toll I http://v	534 Willow I Free Telepho www.mccamp	Pass Road, Pittsburg, CA one: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-92 mccampbell.	269 .com		
Trinit	y Source Group Inc	Client	Project ID:	#154.004; AE	3F	Date Sampled:	12/17/12	2		
500 0	hestnut St. Ste. 225	Freigh	nt			Date Received:	12/17/1	2		
	2100mm 01, 010. 22J	Client	Contact: Da	we Reinsma		Date Extracted:	12/18/1	2		
Santa	Cruz, CA 95060	Client	P.O.:			Date Analyzed:	12/18/1	2		
Extractio	on method: ASTM D 1946-90		Analy	Helium* ytical methods: AS	STM D 1946	5-90		Work	Order: 12	212454
Lab ID	Client ID	Matrix	Initial Pressure	e Final Pressure		Helium		DF	% SS	Comments
001A	SVP-1	Soil Gas	11.76	23.42		8.0		1	N/A	
003A	SVP-2	Soil Gas	13.58	27.09		1.1		1	N/A	
								L		
									<u> </u>	
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	Reporting Limit for DF =1; ND means not detected at or	W	psia	psia		NA				NA
* vapor	above the reporting limit	SoliGas	psia	psia		0.005			<u> </u>	%
%SS = I	Percent Recovery of Surrogate Standard									
DF = Di	lution Factor									
L										

Angela Rydelius, Lab Manager

McCampbell A "When Quality	nalytical, ty Counts''	<u>Inc.</u>	1534 Willow Toll Free Telepho http://www.mccan	Pass Road, Pittsburg, CA one: (877) 252-9262 / Fax: npbell.com / E-mail: main@	94565-1701 (925) 252-9269 mccampbell.co	m			
Trinity Source Group Inc	Client Pr	oject ID: #1	54.004; ABF	Date Sampled:	12/17/12				
500 Chestnut St. Ste. 225	Freight			Date Received:	Date Received: 12/17/12				
500 Chestnut 51, 510. 225	Client Co	ontact: Dave	Reinsma	Date Extracted:	12/20/12				
Santa Cruz, CA 95060	Client P.	O.:	12/20/12						
Extraction Method: TO17	Volatile On Ana	rganic Comp	oounds in μg/m ^{3*}		Work Order:	1212454			
Lab ID	1212454-002A	1212454-004	1A						
Client ID	SVP-1	SVP-2			Reporting	Limit for			
Matrix	ST	ST			DF	5=1			
DF	1	1			-				
Sample Volume (L)	4.00	4.00			ST	W			
Compound		Co	oncentration		µg/m³	ug/L			
TPH-Diesel (C10-C23)	ND	ND			125	NA			
Naphthalene	ND	ND			0.6	NA			
	Surro	gate Recove	eries (%)			I			
%SS3:	111	111							
Comments									
*Samples reported in µg/m ³ ; reporting limit ma	ay change due to va	iriable volume of	f air.			c			

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR ASTM D 1946-90

W.O. Sample Matrix: Soilgas	Q	C Matrix:	Soilgas			BatchID	: 73355		WorkO	rder: 1212454
EPA Method: ASTM D 1946-90	Extraction: AST	M D 1946-	-90				5	Spiked Sam	ple ID:	N/A
Analvte	S	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance	Criteria (%)
		%	%	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Helium		N/A	0.010	N/A	N/A	N/A	102	N/A	N/A	60 - 140
All target compounds in the Method Blank of t NONE	his extraction batch	were ND l	ess than th	e method]	RL with th	ne following	g exception	s:		

BATCH 73355 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212454-001A	12/17/12 12:10 PM	12/18/12	12/18/12 2:38 PM	1212454-003A	12/17/12 12:20 PM	12/18/12	12/18/12 2:51 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

K____QA/QC Officer



W.O. Sample Matrix: Sorbent Tube

QC Matrix: Sorbent Tube

BatchID: 73498

WorkOrder: 1212454

EPA Method: TO17 Extract	ion: TO17			N/A					
Analuta	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	e Criteria (%)
Analyte	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	N/A	100	N/A	N/A	N/A	87.5	N/A	N/A	60 - 140
Bromobenzene	N/A	100	N/A	N/A	N/A	85.2	N/A	N/A	60 - 140
Bromoform	N/A	100	N/A	N/A	N/A	99.2	N/A	N/A	60 - 140
sec-Butyl benzene	N/A	100	N/A	N/A	N/A	90.1	N/A	N/A	60 - 140
tert-Butyl benzene	N/A	100	N/A	N/A	N/A	87.5	N/A	N/A	60 - 140
Chlorobenzene	N/A	100	N/A	N/A	N/A	90.2	N/A	N/A	60 - 140
2-Chlorotoluene	N/A	100	N/A	N/A	N/A	91.6	N/A	N/A	60 - 140
4-Chlorotoluene	N/A	100	N/A	N/A	N/A	87.9	N/A	N/A	60 - 140
1,2-Dibromo-3-chloropropane	N/A	100	N/A	N/A	N/A	95.9	N/A	N/A	60 - 140
1,2-Dichlorobenzene	N/A	100	N/A	N/A	N/A	81.4	N/A	N/A	60 - 140
1,3-Dichlorobenzene	N/A	100	N/A	N/A	N/A	83.4	N/A	N/A	60 - 140
1,4-Dichlorobenzene	N/A	100	N/A	N/A	N/A	84.1	N/A	N/A	60 - 140
1,2-Dichloroethane (1,2-DCA)	N/A	100	N/A	N/A	N/A	117	N/A	N/A	60 - 140
1,3-Dichloropropane	N/A	100	N/A	N/A	N/A	101	N/A	N/A	60 - 140
Ethylbenzene	N/A	100	N/A	N/A	N/A	95.5	N/A	N/A	60 - 140
Hexachlorobutadiene	N/A	100	N/A	N/A	N/A	74.6	N/A	N/A	60 - 140
Isopropylbenzene	N/A	100	N/A	N/A	N/A	92.6	N/A	N/A	60 - 140
4-Isopropyl toluene	N/A	100	N/A	N/A	N/A	89.4	N/A	N/A	60 - 140
Naphthalene	N/A	100	N/A	N/A	N/A	93.4	N/A	N/A	60 - 140
n-Propyl benzene	N/A	100	N/A	N/A	N/A	89.9	N/A	N/A	60 - 140
Styrene	N/A	100	N/A	N/A	N/A	94.1	N/A	N/A	60 - 140
1,1,1,2-Tetrachloroethane	N/A	100	N/A	N/A	N/A	112	N/A	N/A	60 - 140
1,1,2,2-Tetrachloroethane	N/A	100	N/A	N/A	N/A	102	N/A	N/A	60 - 140
Tetrachloroethene	N/A	100	N/A	N/A	N/A	63.1	N/A	N/A	60 - 140
Toluene	N/A	100	N/A	N/A	N/A	83	N/A	N/A	60 - 140
1,2,3-Trichlorobenzene	N/A	100	N/A	N/A	N/A	75.7	N/A	N/A	60 - 140
1,2,4-Trichlorobenzene	N/A	100	N/A	N/A	N/A	75.7	N/A	N/A	60 - 140
1,1,2-Trichloroethane	N/A	100	N/A	N/A	N/A	95.7	N/A	N/A	60 - 140
Trichloroethene	N/A	100	N/A	N/A	N/A	68.3	N/A	N/A	60 - 140
1,2,3-Trichloropropane	N/A	100	N/A	N/A	N/A	92.4	N/A	N/A	60 - 140
1,2,4-Trimethylbenzene	N/A	100	N/A	N/A	N/A	89.6	N/A	N/A	60 - 140

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer



BatchID: 73498

QC SUMMARY REPORT FOR TO17

W.O. Sample Matrix: Sorbent Tube

QC Matrix: Sorbent Tube

WorkOrder: 1212454

EPA Method: TO17	Extraction: TO	017				ę	Spiked Sample ID: N/A				
Analyte		Sample	Spiked	MS	AS MSD MS-MS		LCS	Acceptance Criteria (%)			
		µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
1,3,5-Trimethylbenzene		N/A	100	N/A	N/A	N/A	90.2	N/A	N/A	60 - 140	
Xylenes, Total		N/A	300	N/A	N/A	N/A	94.2	N/A	N/A	60 - 140	
%SS1:		N/A	100	N/A	N/A	N/A	124	N/A	N/A	60 - 140	
%SS3:		N/A	100	N/A	N/A	N/A	110	N/A	N/A	60 - 140	
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:											

BATCH 73498 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212454-002A	12/17/12 1:10 PM	12/20/12	12/20/12 6:32 PM	1212454-004A	12/17/12 2:10 PM	12/20/12	12/20/12 7:27 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

JK___QA/QC Officer



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

Trinity Source Group Inc	Client Project ID: #154	Date Sampled: 01/17/13
500 Chestnut St. Ste. 225		Date Received: 01/17/13
	Client Contact: Debra Moses	Date Reported: 01/30/13
Santa Cruz, CA 95060	Client P.O.:	Date Completed: 01/30/13

WorkOrder: 1301435

January 31, 2013

Dear Debra:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#154**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

					130	5143	35						
McCAN 1534 WILLOW Website: <u>www.m</u> Telepho	-1701 ell.com	CHAIN OF CUSTODY RECORD TURN AROUND TIME Q Q Q Q RUSH 24 HR 48 HR 72 HR 5 DAY EDF Required? Coelt (Normal) No Write On (DW) No											
Report To: Debra Moses Bill To:						-	Lab Use	Only					
Company: Trinity	So	Urd	2 Group,	Inc			ALL Y		Pr	essurizatio	on Gas		
Santa CrDZ, CA 95060 E-Mail:					Pressurized	d By		Date	1	N2	He		
Tele: (831)42(0-	5100	20	Fax: (85))L	26-56007		1							
Project #: 154			Project Name:		Helium Shroud SN#:				_				
Project Location:					Other:								
Sampler Signature:					Notes: 1 Heli	un re:	flez	(on	three	mal	Zizv		
Field Sample ID	Collection		Canister SN#	Manifold / Sampler	if below 5%								
(Location)	Date	Time	Cumoter orta	Kit SN#	Analysis Requested	Indoor	Soil	Ca	Final	ssure/Vacu	um Final		
	Date	THUE				AII	Gas	initiai	rmai	Receipt	(psi)		
SVP-1	VIPB	1345-	- 1351		He, Oz, CHy, COZ	ASTM-196	601						
SUP-2	1/3/13	1020-	1040		He, Oz, CH, COZ	ASTM-191	ADDV						
SUP-1					TO-15 TPHQ+	VOCS	-	-					
JUP-E					16-15 TPHEGY	VOCS	~						
SIP -I	inte	1120	1224		TO 17 Not	1000	001						
(Carbon Like)	411115	1120-	1238		(erchart type)	rinene		7					
(xv ran+ tu a)					(Surbert 10BC)			-					
1													
Relinquished By:	Date:	Time:	Received By:										
6/ · //P/2/1400) / _ /			V_	Temp (°C) :	Work Order	#:							
Refinquished By: Date: Time: Received By:			Equipment										
J=V	19- V 1-17-13 1839 AM (1)			Condition:									
Relinquished By:	Date: Time: Received By:				Shipped Via:								
				\vee									

McCampbell Analytical, Inc.



1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 25	52-9262				W	orkO	rder: 13(01435	Cli	entCo	de: TS	GS				
		WaterTrax	WriteOn	EDF	E	xcel	EC	QuIS	Email		HardCo	ору		,	_J-fla(J
Report to:						Bi	ll to:					Reque	ested TAT:		5 d	ays
Debra Mose Trinity Sourd 500 Chestru Santa Cruz, (831) 426-560	es ce Group Inc ut St, Ste. 225 CA 95060 D0 FAX: (831) 486-5602	Email: cc: PO: ProjectNo:	labstrinity@gma #154	ail.com			Allan Trinity S 500 Che Santa C afm@ts	Source estnut S Cruz, CA sgcorp.r	Group Inc St, Ste. 225 A 95060 net			Date . Date .	Received: Printed:	0 0)1/17/2()1/18/2()13)13
					Γ				Requested	Tests	(See leg	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	6	7	8	9 1	0	11	12
1201425 001	S\/D 1		Soil Coo	1/17/2012 12:45		۸	۸									

1301435-001	SVP-1	Soil Gas	1/17/2013 13:45	А	А					
1301435-002	SVP-2	Soil Gas	1/17/2013 10:20	А	А					
1301435-003	SVP-1 11:38	Sorbent Tube	1/17/2013 11:38			Α				

Test Legend:

1	TMOSPHERICGAS_SG(UL/I
6	
11	

TO15+GAS_SOIL(UG/M3)

3	TO17_ST(UGM3)
8	

	1
4	
9	

5	
10	

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name:	Trinity Source Group	o Inc			Date a	and Time Received:	1/17/2013 7	33:00 PM
Project Name:	#154				LogIn	Reviewed by:		Zoraida Cortez
WorkOrder N°:	1301435	Matrix: Soil Gas/Sor	bent Tu	ipe	Carrie	r: David Valles (N	<u> 1AI Courier)</u>	
		<u>Chai</u>	ո of Cւ	istody (COC) Informa	tion		
Chain of custody	present?		Yes	✓	No 🗌			
Chain of custody	signed when relinquis	hed and received?	Yes	\checkmark	No 🗌			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌			
Date and Time o	f collection noted by C	lient on COC?	Yes	✓	No			
Sampler's name	noted on COC?		Yes		No 🖌			
		S	Sample	Receipt Info	ormation			
Custody seals in	tact on shipping contai	iner/cooler?	Yes		No 🗌		NA 🗹	
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes	✓	No			
		Sample Prese	ervatio	n and Hold 1	<u> (HT)</u>	Information		
All samples rece	ived within holding tim	e?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:			NA 🖌	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌	No VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes	\checkmark	No			
Metal - pH accep	table upon receipt (p⊢	I<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes		No 🗹			

* NOTE: If the "No" box is checked, see comments below.

Comments:

	Analytical, Inc. ulity Counts''	1534 Wil Toll Free Tel http://www.ma	low Pass Road, Pittsburg, C lephone: (877) 252-9262 / F ccampbell.com / E-mail: ma	CA 94565-1701 Fax: (925) 252-9269 iin@mccampbell.com
Trinity Source Group Inc	Client Project ID: #154		Date Sampled:	01/17/13
500 Chestnut St, Ste. 225			Date Received:	01/17/13
Santa Cruz, CA, 95060	Client Contact: Debra Mo	oses	Date Reported:	01/29/13
		Date Completed:	01/29/13	

Work Order: 1301435

January 29, 2013

CASE NARRATIVE REGARDING TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012.



McCampbell A "When Quality	nalytical, ity Counts"	lnc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com						
Trinity Source Group Inc	Client Pro	oject ID:	#154		01/17/13				
500 Chestnut St. Ste. 225					Date Received:	01/17/13			
	Client Co	ebra Mo	ses	Date Extracted:	01/25/13-0	01/30/13			
Santa Cruz, CA 95060	Client P.C			Date Analyzed:	01/25/13-0	01/30/13			
Extraction Method: ASTM D 1946-90	Work Order:	1301435							
Lab ID	1301435-001A								
Client ID	SVP-1								
Matrix	ix Soil Gas						Reporting Limit for DF =1		
Initial Pressure (psia)	13.64		(Final/Initial) = 2						
Final Pressure (psia)	27.18								
DF	1					Soil Gas	W		
Compound			Concer	ntration		μL/L	ug/L		
Carbon Dioxide	8300					20	NA		
Methane	ND					2.0	NA		
Oxygen	200,000					500	NA		
Surrogate Recoveries (%)									
%SS:	N/A								
Comments									
vapor samples are reported in µL/L. SS = Percent Recovery of Surrogate Standard F = Dilution Factor									

	McCampbell Analytical, Inc. "When Quality Counts"			15. Toll Fi http://w	34 Willow Pass Road, Pittsburg, CA 94565 ree Telephone: (877) 252-9262 / Fax: (925) ww.mccampbell.com / E-mail: main@mcca	/ Pass Road, Pittsburg, CA 94565-1701 ione: (877) 252-9262 / Fax: (925) 252-9269 mpbell.com / E-mail: main@mccampbell.com				
Trinit	y Source Group Inc	Client	Project ID: #	#154	Date Sampled: 01/	/17/13				
500 C	hestnut St, Ste. 225				Date Received: 01/	Date Received: 01/17/13				
	,	Client	Contact: Deb	ora Moses	Date Extracted: 01/	/22/13-01/2	3/13			
Santa	Cruz, CA 95060	Client	P.O.:		Date Analyzed: 01/	/22/13-01/2	3/13			
Fytur - ··	n method · ASTM D 1044 00		A 1	Helium*	TM D 1046 00	W7. 1	Ordor '	301425		
Lab ID	Client ID	Matrix	Analyt Initial Pressure	Final Pressure	Helium	Work DF	% SS	Comments		
			1							
001A	SVP-1	Soil Gas	13.64	27.18	0.23	1	N/A			
002A	SVP-2	Soil Gas	14.18	28.28	40	30	N/A			
				<u> </u>			<u> </u>			
				<u> </u>						
						_				
							<u> </u>			
							<u> </u>			
							1			
			-	<u> </u>						
	Reporting Limit for DF =1; ND means not detected at or	W	psia	psia	NA			NA		
	above the reporting limit	SoilGas	psia	psia	0.005			%		
* vapor	samples are reported in %.									
%SS = I	rercent Recovery of Surrogate Standard									
טר = Di	iution factor									
ר טחט	AP Cartification 1644				R	idalina T	Mar	or.		
	LAI CEIUNCAUOII 1044				Angela Ry	ydenus, Lat	vianag	ger		

McCampbell Analytical, Inc. "When Quality Counts"				1534 Willow F Toll Free Telepho http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fa: pbell.com / E-mail: main	A 94565-1701 x: (925) 252-9269 a@mccampbell.com			
Trinity Source Group Inc	Client H	Project ID): #15	Date Sampled:	01/17/13				
· ·		Date Received							
500 Chestnut St, Ste. 225	Client C	Contact: 1	Debra	Moses	Date Extracted:	01/24/13			
Santa Cruz, CA 95060	Client F	P.O.:			Date Analyzed:	01/24/13			
	TPH gas +	Volatile	Orga	nic Compounds in	ug/m ³ *				
Extraction Method: TO15	11 11 gus 1	Analytical N	Iethod:	TO15	μς/ 111	Work Order: 1301	435		
Lab ID			1301	1435-001A		Initial Pressur	e (psia)	13.64	
Client ID				SVP-1		Final Pressure	e (psia)	27.18	
Matrix			S	oil Gas					
Compound	Concentration *	DF	Reporting Limit	Compour	nd	Concentration *	DF	Reporting	
Acetone	340	1.0	120	Acrylonitrile		ND	1.0	4.4	
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene		ND	1.0	6.5	
Benzyl chloride	ND	1.0	11	Bromodichloromethan	e	ND	1.0	14	
Bromoform	ND	1.0	21	Bromomethane	•	ND	1.0	7.9	
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)		ND	1.0	150	
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide		ND	1.0	6.3	
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene		ND	1.0	9.4	
Chloroethane	ND	1.0	5.4	Chloroform		ND	1.0	9.9	
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180		
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloro	ND	1.0	20		
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12		
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene		ND	1.0	12	
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane		ND	1.0	8.2	
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene		ND	1.0	8.1	
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethe	ene	ND	1.0	8.1	
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloroprope	ne	ND	1.0	9.2	
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-t	etrafluoroethane	ND	1.0	14	
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane		ND	1.0	7.3	
Ethanol	290	1.0	96	Ethyl acetate		33	1.0	19	
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene		9.6	1.0	8.8	
4-Ethyltoluene	ND	1.0	10	Freon 113		ND	1.0	16	
Heptane	ND	1.0	210	Hexachlorobutadiene		ND	1.0	22	
Hexane	ND	1.0	180	2-Hexanone		ND	1.0	210	
4-Methyl-2-pentanone (MIBK)	ND	1.0	8.3	Nethyl-t-Dutyl ether (f	VIIBE)	ND	1.0	/.3	
Bronone	ND	1.0	/.1	Sturono		ND	1.0	86	
1 1 1 2-Tetrachloroethane	ND	1.0	14	1 1 2 2-Tetrachloroeth	ane	ND	1.0	14	
Tetrachloroethene	16	1.0	14	Tetrahydrofuran	and	ND	1.0	6.0	
Toluene	ND	1.0	77	TPH(g)		1300	1.0	360	
1.2.4-Trichlorobenzene	ND	1.0	15	1.1.1-Trichloroethane		ND	1.0	11	
1.1.2-Trichloroethane	ND	1.0	11	Trichloroethene		ND	1.0	11	
Trichlorofluoromethane	ND	ne	ND	1.0	10				
1,3,5-Trimethylbenzene	ND	1.0	10	Vinyl Acetate		ND	1.0	180	
Vinyl Chloride	ND	77	1.0	27					
	·	Surro	gate R	ecoveries (%)		· ·			
%SS1:	87	7		%SS2:		9:	5		
%SS3:	75	5		J					
Comments:									

*vapor samples are reported in µg/m3.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

McCampbell Analytical, Inc. "When Quality Counts"					1534 Willow I Toll Free Telepho http://www.mccam	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-17 (925) 252 mccamp	701 2-9269 bell.com		
Trinity Source	e Group Inc	Client I	Project ID:	#154		Date Sampled:	01/1	7/13		
500 Chestnut	St. Ste. 225					Date Received:	01/1	7/13		
		Client (Contact: De	bra Mo	oses	Date Extracted:	01/2	28/13		
Santa Cruz, C	A 95060	Client I	P.O.:			Date Analyzed:	01/2	28/13		
Extraction method:	T017	latile Organ Analyti	nic Con	npounds in μg/ ds: TO17	[/] m ^{3*}		W	/ork Order:	1301435	
Lab ID	Client ID	Matrix	Sample Volu	me (L)	Ν	Japhthalene		DF	% SS	Comments
1301435-003A	SVP-1 11:38	ST	4.00			2.0		1	124	

Reporting Limit for DF $=1$;	W	NA	NA
above the reporting limit	ST	2.0	$\mu g/m^3$

*Samples reported in $\mu g/m^3$; reporting limit may change due to variable volume of air.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR ASTM D 1946-90

W.O. Sample Matrix: SoilGas	QC Matrix:	QC Matrix: Air				BatchID: 74248			WorkOrder: 1301435	
EPA Method: ASTM D 1946-90 Extraction: A	Spiked Sample ID: N/A					N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	μL/L	µL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Carbon Dioxide	N/A	100	N/A	N/A	N/A	79.9	N/A	N/A	70 - 130	
Methane	N/A	10	N/A	N/A	N/A	94.5	N/A	N/A	70 - 130	
Oxygen	N/A	7000	N/A	N/A	N/A	81.7	N/A	N/A	70 - 130	
All target compounds in the Method Blank of this extraction batch were ND less than the method NONE					ne following	g exception	IS:			

BATCH 74248 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301435-001A	01/17/13 1:45 PM	01/25/13	01/25/13 6:22 PM	1301435-001A	01/17/13 1:45 PM	01/28/13	01/28/13 5:17 PM
1301435-001A	01/17/13 1:45 PM	01/30/13	01/30/13 9:52 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



QC SUMMARY REPORT FOR ASTM D 1946-90

W.O. Sample Matrix: Soilgas		QC Matrix: Soilgas				BatchID: 74142			WorkOrder: 1301435	
EPA Method: ASTM D 1946-90	Extraction: AS	STM D 1946	-90				ę	Spiked Sam	ple ID:	N/A
Analyte		Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
		%	%	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Helium		N/A	0.010	N/A	N/A	N/A	99.3	N/A	N/A	60 - 140
All target compounds in the Method Blank NONE	of this extraction bat	tch were ND	less than th	e method	RL with tl	ne following	g exception	IS:		

BATCH 74142 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301435-001A	01/17/13 1:45 PM	01/22/13	01/22/13 2:36 PM	1301435-002A	01/17/13 10:20 AM	01/23/13	01/23/13 3:03 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

₩___QA/QC Officer



QC Matrix: Soilgas BatchID: 74184 WorkOrder: 1301435 W.O. Sample Matrix: Soilgas EPA Method: TO15 Extraction: TO15 Spiked Sample ID: N/A Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte nL/L nL/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS N/A 25 73.3 N/A 60 - 140 Acrylonitrile N/A N/A N/A N/A tert-Amyl methyl ether (TAME) N/A 25 N/A N/A N/A 106 N/A N/A 60 - 140 N/A 25 N/A N/A N/A 103 N/A N/A 60 - 140 Benzene Benzyl chloride N/A 25 N/A N/A N/A 101 N/A N/A 60 - 140 Bromodichloromethane N/A 25 N/A N/A N/A 112 N/A N/A 60 - 140 25 103 N/A N/A 60 - 140 Bromoform N/A N/A N/A N/A t-Butyl alcohol (TBA) N/A 25 N/A N/A N/A 75.4 N/A N/A 60 - 140 Carbon Disulfide N/A 25 N/A N/A N/A N/A 60 - 140 N/A 68 Carbon Tetrachloride N/A 25 N/A N/A N/A 112 N/A N/A 60 - 140 Chlorobenzene N/A 25 N/A N/A N/A 101 N/A N/A 60 - 140 Chloroethane N/A 25 N/A N/A N/A 124 N/A N/A 60 - 140 Chloroform 107 N/A N/A 25 N/A N/A N/A N/A 60 - 140 Chloromethane N/A 25 N/A N/A 94 N/A N/A 60 - 140 N/A 25 N/A N/A 60 - 140 Dibromochloromethane N/A N/A N/A N/A 112 1,2-Dibromo-3-chloropropane N/A 25 N/A N/A N/A 122 N/A N/A 60 - 140 1,2-Dibromoethane (EDB) N/A 25 N/A 104 N/A N/A 60 - 140 N/A N/A 1,3-Dichlorobenzene N/A 25 N/A N/A N/A 98.9 N/A N/A 60 - 140 1.4-Dichlorobenzene N/A 25 N/A N/A N/A 84 N/A N/A 60 - 140 Dichlorodifluoromethane 25 N/A N/A 60 - 140 N/A N/A N/A N/A 88.6 1,1-Dichloroethane N/A 25 N/A N/A N/A 107 N/A N/A 60 - 140 1,2-Dichloroethane (1,2-DCA) N/A 25 N/A N/A N/A 112 N/A N/A 60 - 140 cis-1,2-Dichloroethene N/A 25 N/A N/A N/A 106 N/A N/A 60 - 140 N/A 105 N/A N/A trans-1,2-Dichloroethene 25 N/A N/A N/A 60 - 140 1,2-Dichloropropane N/A 25 N/A N/A N/A 107 N/A N/A 60 - 140 cis-1,3-Dichloropropene N/A 25 N/A N/A N/A 106 N/A N/A 60 - 140 trans-1,3-Dichloropropene N/A 25 N/A N/A N/A 111 N/A N/A 60 - 140 25 83.6 N/A 1,2-Dichloro-1,1,2,2-tetrafluoroethane N/A N/A N/A N/A N/A 60 - 140 Diisopropyl ether (DIPE) N/A 25 N/A N/A N/A 116 N/A N/A 60 - 140 1,4-Dioxane N/A 25 N/A N/A N/A 100 N/A N/A 60 - 140 Ethyl acetate N/A 25 N/A N/A N/A 111 N/A N/A 60 - 140 25 N/A Ethyl tert-butyl ether (ETBE) N/A N/A N/A N/A 109 N/A 60 - 140

LCS = Laboratory Control Sample

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.





QC Matrix: Soilgas BatchID: 74184 WorkOrder: 1301435 W.O. Sample Matrix: Soilgas Spiked Sample ID: N/A EPA Method: TO15 Extraction: TO15 Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte nL/L nL/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS N/A 25 N/A 93.8 N/A 60 - 140 Ethylbenzene N/A N/A N/A Freon 113 N/A 25 N/A N/A N/A 67.8 N/A N/A 60 - 140 Hexachlorobutadiene N/A 25 N/A N/A N/A 89.6 N/A N/A 60 - 140 4-Methyl-2-pentanone (MIBK) N/A 25 N/A N/A N/A 111 N/A N/A 60 - 140 Methyl-t-butyl ether (MTBE) N/A 25 N/A N/A N/A 105 N/A N/A 60 - 140 Methylene chloride N/A 25 N/A N/A N/A 60 - 140 N/A N/A 66 N/A Naphthalene N/A 25 N/A N/A N/A 107 N/A 60 - 140 Styrene N/A 25 N/A N/A N/A 98.4 N/A N/A 60 - 140 25 1,1,1,2-Tetrachloroethane N/A N/A N/A N/A 109 N/A N/A 60 - 140 1.1.2.2-Tetrachloroethane N/A 25 N/A N/A N/A 105 N/A N/A 60 - 140 Tetrachloroethene N/A 25 N/A N/A N/A 98 N/A N/A 60 - 140 Tetrahydrofuran N/A N/A 25 N/A N/A N/A 95.6 N/A 60 - 140 Toluene N/A 25 N/A N/A N/A 101 N/A N/A 60 - 140 1.2.4-Trichlorobenzene 25 N/A 94.4 N/A N/A 60 - 140 N/A N/A N/A 1,1,1-Trichloroethane N/A 25 N/A N/A N/A 111 N/A N/A 60 - 140 1,1,2-Trichloroethane N/A 25 N/A N/A 105 N/A N/A 60 - 140 N/A Trichloroethene N/A 25 N/A N/A N/A 104 N/A N/A 60 - 140 1,2,4-Trimethylbenzene N/A 25 N/A N/A N/A 100 N/A N/A 60 - 140 1,3,5-Trimethylbenzene N/A 25 N/A 99.8 N/A N/A 60 - 140 N/A N/A Vinyl Chloride N/A 25 N/A N/A N/A 78.1 N/A N/A 60 - 140 %SS1: N/A 500 N/A N/A N/A 89 N/A N/A 60 - 140 %SS2: N/A 500 N/A N/A N/A 92 N/A N/A 60 - 140 N/A 500 N/A N/A %SS3: N/A N/A N/A 90 60 - 140 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

			BATCH 74184 S	<u>JMMARY</u>			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301435-001A	01/17/13 1:45 PM	01/24/13	01/24/13 4:28 PM				

LCS = Laboratory Control Sample

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer



QC Matrix: Sorbent Tube BatchID: 74309 WorkOrder: 1301435 W.O. Sample Matrix: Sorbent Tube Spiked Sample ID: N/A EPA Method: TO17 Extraction: TO17 Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µg/m³ µg/m³ % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS N/A 100 96.6 N/A N/A 60 - 140 Naphthalene N/A N/A N/A %SS3: N/A 100 N/A N/A N/A 111 N/A N/A 60 - 140 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 74309 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1301435-003A	01/17/13 11:38 AM	01/28/13	01/28/13 3:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



David Reinsma Trinity Source Group 500 Chestnut St,Suite 225 Santa Cruz, California 95060 Tel: 831-426-5600;Cell 831-227 4724 Fax: 831-426-5602 Email: dar@tsgcorp.net

RE: SVP-2 Re-Sample

Work Order No.: 1302008

Dear David Reinsma:

Torrent Laboratory, Inc. received 1 sample(s) on February 05, 2013 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

gtp 52-

February 13, 2013 Date

Patti Sandrock QA Officer



Client: Trinity Source Group Project: SVP-2 Re-Sample Work Order: 1302008

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Analytical Comments for TO-15SIM and TO-15 standard analysis, Note: Due to issues encountered in the field during sample collection, two canisters were submitted for the same sample. Both canisters were analyzed and reported for TO-15SIM and TO-15 Std (for those compounds with concetrations to high to accurately measure by SIM) but only one sample is subject to invoicing. The second sample was processed as a QC sample. TPH as GRO is reported only on sample -001.



Sample Result Summary

Report prepared for:

David Reinsma

Trinity Source Group

Date Received: 02/05/13

Date Reported: 02/13/13

1302008-001A

SVP-2

Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	<u>MDL</u>	PQL	<u>Results</u> ug/m3
Dichlorodifluoromethane	TO15SIM	1	0.018	0.05	0.40
Chloromethane	TO15SIM	1	0.0088	0.02	0.27
1,3-Butadiene	TO15SIM	1	0.022	0.04	0.24
Bromomethane	TO15SIM	1	0.0082	0.02	0.51
Chloroethane	TO15SIM	1	0.0021	0.01	0.055
Isopropyl Alcohol	TO15SIM	1	0.016	1	0.68
Methylene Chloride	TO15SIM	1	0.015	0.04	0.042
Carbon disulfide	TO15SIM	1	0.0028	0.02	0.34
Vinyl Acetate	TO15SIM	1	0.0050	0.02	0.91
1,1,1-Trichloroethane	TO15SIM	1	0.0083	0.03	0.039
Benzene	TO15SIM	1	0.034	0.06	0.15
Heptane	TO15SIM	1	0.0033	0.02	2.3
Trichloroethylene	TO15SIM	1	0.011	0.03	2.1
Methyl Isobutyl Ketone (MIBK)	TO15SIM	1	0.0064	0.02	0.35
Toluene	TO15SIM	1	0.0042	0.02	0.21
2-Hexanone	TO15SIM	1	0.0089	0.02	0.49
m,p-Xylene	TO15SIM	1	0.0042	0.02	0.095
o-Xylene	TO15SIM	1	0.0022	0.02	0.052
1,3,5-Trimethylbenzene	TO15SIM	1	0.0035	0.02	0.020
1,2,4-Trimethylbenzene	TO15SIM	1	0.0033	0.02	0.064
1,2-Dichlorobenzene	TO15SIM	1	0.0056	0.03	0.0060
Naphthalene	TO15SIM	1	0.0047	0.03	0.12
Carbon Dioxide	D1946	2.26	0.057	0.057	1.22
Oxygen	D1946	2.26	0.0565	0.0565	17.3
TPH-Gasoline	ETO15	2.26	64	130	450
1,1-Difluoroethane	ETO15	2.26	1.1	3.1	426
Acetone	ETO15	2.26	2.0	22	67.1
2-Butanone (MEK)	ETO15	2.26	1.4	3.4	9.90
Tetrachloroethylene	ETO15	2.26	2.0	7.7	971



SVP-2

o-Xylene

Naphthalene

1,3,5-Trimethylbenzene

1,2,4-Trimethylbenzene

Sample Result Summary

Report prepared for:	David Reinsma				Date R	eceived:
	Trinity Source Group				Date R	eported:
VP-2						130
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	<u>Results</u> ug/m3
Carbon Dioxide		D1946	1.87	0.047	0.047	1.21
Oxygen		D1946	1.87	0.0468	0.0468	17.1
1,1-Difluoroethane		ETO15	1.87	0.93	2.5	12.5
Acetone		ETO15	1.87	1.6	18	20.4
Tetrachloroethylene		ETO15	1.87	1.7	6.4	901
Dichlorodifluoromethane		TO15SIM	1	0.018	0.05	0.39
Chloromethane		TO15SIM	1	0.0088	0.02	0.095
Bromomethane		TO15SIM	1	0.0082	0.02	0.55
Chloroethane		TO15SIM	1	0.0021	0.01	0.016
tert-Butanol		TO15SIM	1	0.011	0.03	0.51
Methylene Chloride		TO15SIM	1	0.015	0.04	0.42
Carbon disulfide		TO15SIM	1	0.0028	0.02	2.0
Chloroform		TO15SIM	1	0.00813	0.02	0.0588
1,1,1-Trichloroethane		TO15SIM	1	0.0083	0.03	0.055
Benzene		TO15SIM	1	0.034	0.06	0.090
Trichloroethylene		TO15SIM	1	0.011	0.03	2.3
Methyl Isobutyl Ketone (MIBK)	TO15SIM	1	0.0064	0.02	0.66
Toluene		TO15SIM	1	0.0042	0.02	0.091
2-Hexanone		TO15SIM	1	0.0089	0.02	0.70
m,p-Xylene		TO15SIM	1	0.0042	0.02	0.10

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TO15SIM

TO15SIM

TO15SIM

TO15SIM

1

1

1

1

0.0022

0.0035

0.0033

0.0047

0.02

0.02

0.02

0.03

Date Received: 02/05/13

ported: 02/13/13

0.069

0.039

0.083

0.052

1302008-002A



Report prepared for:	David Reinsma Trinity Source Gro	oup						I	Date Rece Date Repo	ived: 02/05 rted: 02/13	5/13 3/13
Client Sample ID:	SVP-2				Lab Sa	ample ID:	13	302008-001A	١		
Project Name/Location:	SVP-2 Re-Sa	mple			Sampl	le Matrix:	Ai	r			
Project Number:											
Date/Time Sampled:	02/05/13 / 14:	15			Certifie	ed Clean	WO # :				
Canister/Tube ID:	0467				Receiv	ed PSI :		10.8			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1,1-Difluoroethane	ETO15	NA	02/12/13	2.26	1.1	3.1	426	157.78	E	413924	NA
Acetone	ETO15	NA	02/12/13	2.26	2.0	22	67.1	27.96		413924	NA
2-Butanone (MEK)	ETO15	NA	02/12/13	2.26	1.4	3.4	9.90	3.30		413924	NA
Tetrachloroethylene	ETO15	NA	02/12/13	2.26	2.0	7.7	971	142.79		413924	NA
NOTE: E-Estimated. Value	outside of calibration ra	ange but v	vithin linear i	range (Leak chec	k compou	nd).				
(S) 4-Bromofluorobenzene	ETO15	NA	02/12/13	2.26	65	135	83.7 %			413924	NA
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
NOTE: x-Not typical of Gas	ET015 oline standard pattern. Analysis Method	Result du Prep Date	02/12/13 ue to discrete Date Analyzed	2.26 e peak DF	64 (PCE). MDL ug/m3	PQL ug/m3	450 Results ug/m3	Results ppbv	X Lab Qualifier	413923 Analytical Batch	Prep Batch
The results shown below	are reported using	their MD	DL.							-	•
Dichlorodifluoromethane	TO15SIM	NA	02/11/13	1	0.018	0.05	0.40	0.08		413913	NA
Chloromethane	TO15SIM	NA	02/11/13	1	0.0088	0.02	0.27	0.13		413913	NA
Vinyl Chloride	TO15SIM	NA	02/11/13	1	0.0037	0.01	ND	ND		413913	NA
1,3-Butadiene	TO15SIM	NA	02/11/13	1	0.022	0.04	0.24	0.11		413913	NA
Bromomethane	TO15SIM	NA	02/11/13	1	0.0082	0.02	0.51	0.13		413913	NA
Chloroethane	TO15SIM	NA	02/11/13	1	0.0021	0.01	0.055	0.02		413913	NA
Trichloromonofluoromethane	TO15SIM	NA	02/11/13	1	0.012	0.03	ND	ND		413913	NA
Isopropyl Alcohol	TO15SIM	NA	02/11/13	1	0.016	1	0.68	0.27	J	413913	NA
1,1-Dichloroethene	TO15SIM	NA	02/11/13	1	0.0068	0.02	ND	ND		413913	NA
tert-Butanol	TO15SIM	NA	02/11/13	1	0.011	0.03	ND	ND		413913	NA
Methylene Chloride	TO15SIM	NA	02/11/13	1	0.015	0.04	0.042	0.01		413913	NA
Freon 113	TO15SIM	NA	02/11/13	1	0.013	0.04	ND	ND		413913	NA
Carbon disulfide	TO15SIM	NA	02/11/13	1	0.0028	0.02	0.34	0.11		413913	NA
trans-1,2-Dichloroethene	TO15SIM	NA	02/11/13	1	0.0038	0.02	ND	ND		413913	NA
МТВЕ	TO15SIM	NA	02/11/13	1	0.0062	0.02	ND	ND		413913	NA
1,1-Dichloroethane	TO15SIM	NA	02/11/13	1	0.0050	0.02	ND	ND		413913	NA
Vinyl Acetate	TO15SIM	NA	02/11/13	1	0.0050	0.02	0.91	0.26		413913	NA
Hexane	TO15SIM		02/11/13	1 1	0.0045	0.02		ND		413913	
DIFE	1015511/1	NА	02/11/13	I	0.0044	0.02	ND	ND		413913	INA

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Report prepared for:	David Reinsma Trinity Source Gro	oup							Date Rece Date Repo	ived: 02/05 rted: 02/13	i/13 i/13
Client Sample ID:	SVP-2				Lab Sa	mple ID:	1	302008-001	4		
Project Name/Location:	SVP-2 Re-Sa	mple			Sampl	e Matrix:	A	Nir			
Project Number:											
Date/Time Sampled:	02/05/13 / 14	:15			Certifie	d Clean \	NO # :				
Canister/Tube ID:	0467				Receiv	ed PSI :		10.8			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
cis-1,2-Dichloroethene	TO15SIM	NA	02/11/13	1	0.0041	0.02	ND	ND		413913	NA
Ethyl Acetate	TO15SIM	NA	02/11/13	1	0.0033	0.02	ND	ND		413913	NA
Chloroform	TO15SIM	NA	02/11/13	1	0.00813	0.02	ND	ND		413913	NA
ETBE	TO15SIM	NA	02/11/13	1	0.0048	0.02	ND	ND		413913	NA
Tetrahydrofuran	TO15SIM	NA	02/11/13	1	0.029	0.06	ND	ND		413913	NA
1,2-Dichloroethane (EDC)	TO15SIM	NA	02/11/13	1	0.0050	0.02	ND	ND		413913	NA
1,1,1-Trichloroethane	TO15SIM	NA	02/11/13	1	0.0083	0.03	0.039	0.01		413913	NA
Carbon Tetrachloride	TO15SIM	NA	02/11/13	1	0.0085	0.03	ND	ND		413913	NA
Benzene	TO15SIM	NA	02/11/13	1	0.034	0.06	0.15	0.05		413913	NA
ТАМЕ	TO15SIM	NA	02/11/13	1	0.0025	0.02	ND	ND		413913	NA
Heptane	TO15SIM	NA	02/11/13	1	0.0033	0.02	2.3	0.56		413913	NA
1,2-Dichloropropane	TO15SIM	NA	02/11/13	1	0.0047	0.02	ND	ND		413913	NA
Trichloroethylene	TO15SIM	NA	02/11/13	1	0.011	0.03	2.1	0.39		413913	NA
Bromodichloromethane	TO15SIM	NA	02/11/13	1	0.0056	0.03	ND	ND		413913	NA
1,4-Dioxane	TO15SIM	NA	02/11/13	1	0.011	0.02	ND	ND		413913	NA
cis-1,3-Dichloropropene	TO15SIM	NA	02/11/13	1	0.0036	0.02	ND	ND		413913	NA
Methyl Isobutyl Ketone (MIBK)	TO15SIM	NA	02/11/13	1	0.0064	0.02	0.35	0.09		413913	NA
trans-1,3-Dichloropropene	TO15SIM	NA	02/11/13	1	0.0040	0.02	ND	ND		413913	NA
1,1,2-Trichloroethane	TO15SIM	NA	02/11/13	1	0.00325	0.03	ND	ND		413913	NA
Toluene	TO15SIM	NA	02/11/13	1	0.0042	0.02	0.21	0.06		413913	NA
NOTE: Reporting limit was r	aised due to low canis	ster pressu	ure.								



Report prepared for:	David Reinsma Trinity Source Gro	oup							Date Received: 02/05/13 Date Reported: 02/13/13		
Client Sample ID:	SVP-2				Lab Sa	ample ID:		1302008-001	A		
Project Name/Location:	SVP-2 Re-Sa	mple			Sampl	e Matrix:		Air			
Project Number:					-						
Date/Time Sampled:	02/05/13 / 14:	/ 14:15			Certifie	ed Clean V	WO # :				
Canister/Tube ID:	0467				Receiv	ed PSI :		10.8			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
The results shown below	vare reported using	their ML	DL.								
2-Hexanone	TO15SIM	NA	02/11/13	1	0.0089	0.02	0.49	0.12		413913	NA
Dibromochloromethane	TO15SIM	NA	02/11/13	1	0.021	0.04	ND	ND		413913	NA
1,2-Dibromoethane (EDB)	TO15SIM	NA	02/11/13	1	0.0042	0.04	ND	ND		413913	NA
1,1,1,2-Tetrachloroethane	TO15SIM	NA	02/11/13	1	0.0090	0.03	ND	ND		413913	NA
Chlorobenzene	TO15SIM	NA	02/11/13	1	0.0023	0.005	ND	ND		413913	NA
Ethylbenzene	TO15SIM	NA	02/11/13	1	0.0023	0.02	ND	ND		413913	NA
n,p-Xylene	TO15SIM	NA	02/11/13	1	0.0042	0.02	0.095	0.02		413913	NA
Bromoform	TO15SIM	NA	02/11/13	1	0.033	0.1	ND	ND		413913	NA
Styrene	TO15SIM	NA	02/11/13	1	0.0031	0.02	ND	ND		413913	NA
1,1,2,2-Tetrachloroethane	TO15SIM	NA	02/11/13	1	0.0023	0.007	ND	ND		413913	NA
o-Xylene	TO15SIM	NA	02/11/13	1	0.0022	0.02	0.052	0.01		413913	NA
4-Ethyl toluene	TO15SIM	NA	02/11/13	1	0.0034	0.02	ND	ND		413913	NA
1,3,5-Trimethylbenzene	TO15SIM	NA	02/11/13	1	0.0035	0.02	0.020	0.00	J	413913	NA
1,2,4-Trimethylbenzene	TO15SIM	NA	02/11/13	1	0.0033	0.02	0.064	0.01		413913	NA
1,3-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0056	0.03	ND	ND		413913	NA
1,4-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0052	0.03	ND	ND		413913	NA
1,2-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0056	0.03	0.0060	0.00	J	413913	NA
1,2,4-trichlorobenzene	TO15SIM	NA	02/11/13	1	0.066	0.04	ND	ND		413913	NA
Naphthalene	TO15SIM	NA	02/11/13	1	0.0047	0.03	0.12	0.02		413913	NA
Hexachlorobutadiene	TO15SIM	NA	02/11/13	1	0.11	0.2	ND	ND		413913	NA
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL %	Results %	Results	Lab Qualifier	Analytical Batch	Prep Batch
Carbon Dioxide	D1946	NA	02/12/13	2.26	0.057	0.057	1.22	4	I	413915	NA
Oxygen	D1946	NA	02/12/13	2.26	0.0565	0.0565	17.3			413915	NA
Methane	D1946	NA	02/12/13	2.26	0.001	0.001	ND	ND		413915	NA



Report prepared for:	David Reinsma Trinity Source Gro	oup						C C	oate Rece Date Repo	ived: 02/05 rted: 02/13	5/13 3/13
Client Sample ID: Project Name/Location:	SVP-2 SVP-2 Re-Sa	mple			Lab Sa Sampl	ample ID: e Matrix:	13 Ai	802008-002A r			
Project Number:											
Date/Time Sampled:	01/28/13 /				Certifie	ed Clean V	NO # :				
Canister/Tube ID:	1250				Receiv	ed PSI :		0.0			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
Tag Number:	SVP-2 re-sam	nple									
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1,1-Difluoroethane	ETO15	NA	02/12/13	1.87	0.93	2.5	12.5	4.63		413924	NA
Acetone	ETO15	NA	02/12/13	1.87	1.6	18	20.4	8.50		413924	NA
Tetrachloroethylene	ETO15	NA	02/12/13	1.87	1.7	6.4	901	132.50	Е	413924	NA
NOTE: E-Estimated. Value	outside of calibration ra	ange but v	within linear i	range.							
(S) 4-Bromofluorobenzene	ETO15	NA	02/12/13	1.87	65	135	107 %			413924	NA
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
	T0450104	N1.0	00/44/40		0.040	0.05	0.00	0.00		440040	
Dichlorodifiuoromethane	TO15SIM	NA	02/11/13	1	0.018	0.05	0.39	0.08		413913	NA
	TOISSIM	NA	02/11/13	1	0.0088	0.02	0.095	0.05		413913	NA
	TOTSSIM	NA NA	02/11/13	1	0.0037	0.01		ND		413913	
	TOTSSIM	NA	02/11/13	1	0.022	0.04	ND	ND		413913	NA
Bromometnane	TO15SIM	NA	02/11/13	1	0.0082	0.02	0.55	0.14		413913	NA
	TOTSSIM	NA	02/11/13	1	0.0021	0.01	0.016	0.01		413913	NA
	TOTSSIM	NA NA	02/11/13	1	0.012	0.03		ND		413913	
1.1 Disblarasthana	TOISSIM		02/11/13	1	0.016	0.02				413913	
T, T-Dichloroethene	TOISSIM		02/11/13	1	0.0008	0.02		ND 0.17		413913	
Nothylana Chlarida	TOISSIM		02/11/13	1	0.011	0.03	0.51	0.17		413913	
	TOISSIN		02/11/13	1	0.013	0.04	0.42	0.12		413913	
Carbon disulfido	TOISSIM		02/11/13	1	0.013	0.04	2.0	ND 0.65		413913	
trans_1 2-Dichloroethene	TO15SIM		02/11/13	1	0.0020	0.02		0.05		413913	
MTRE	TO 15SIM		02/11/13	1	0.0050	0.02				413913	
1 1-Dichloroethane	TO15SIM	NA	02/11/13	1	0.0002	0.02	ND			413913	NA
	TO15SIM	ΝΔ	02/11/13	1	0.0050	0.02	ND			413913	ΝΔ
Hexane	TO15SIM	NA	02/11/13	1	0.0045	0.02	ND			413913	NA
2-Butanone (MEK)	TO15SIM	NA	02/11/13	1	0.0078	0.02	ND	ND		413913	NA
DIPE	TO15SIM	NA	02/11/13	1	0.0044	0.02	ND	ND		413913	NA
cis-1.2-Dichloroethene	TO15SIM	NA	02/11/13	1	0.0041	0.02	ND	ND		413913	NA
Ethyl Acetate	TO15SIM	NA	02/11/13	1	0.0033	0.02	ND	ND		413913	NA
Chloroform	TO15SIM	NA	02/11/13	1	0.00813	0.02	0.0588	0.01		413913	NA
FTRF	TO15SIM	NA	02/11/13	1	0.0048	0.02	0.0000 ND			413913	NA
Tetrahydrofuran	TO15SIM	NΔ	02/11/12	1	0.0040	0.02	ND			413013	NΔ
1,2-Dichloroethane (EDC)	TO15SIM	NA	02/11/13	1	0.0050	0.02	ND	ND		413913	NA

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Report prepared for:	David Reinsma Trinity Source Gro	up						C C	oate Recei oate Repo	ived: 02/05 rted: 02/13	/13 /13
Client Sample ID:	SVP-2				Lab Sa	ample ID:	13	02008-002A			
Project Name/Location:	SVP-2 Re-Sar	nple			Sampl	e Matrix:	Ai	r			
Project Number:											
Date/Time Sampled:	01/28/13 /				Certifie	ed Clean V	NO # :				
Canister/Tube ID:	1250				Receiv	ed PSI :		0.0			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
Tag Number:	SVP-2 re-sam	ple									
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1 1 1-Trichloroethane	TO15SIM	ΝΑ	02/11/13	1	0.0083	0.03	0.055	0.01		/13013	ΝΑ
Carbon Tetrachloride	TO15SIM	NA	02/11/13	1	0.0005	0.03	0.055 ND			413913	NA
Benzene	TO 150IM	NA	02/11/13	1	0.0000	0.00	0.090	0.03		413913	NA
TAME	TO15SIM	NA	02/11/13	1	0.004	0.00	ND			413913	NA
Hentane	TO 150IM	NA	02/11/13	1	0.0020	0.02	ND			413913	NA
1 2-Dichloropropane	TO15SIM	NA	02/11/13	1	0.0047	0.02	ND	ND		413913	NA
Trichloroethylene	TO15SIM	NA	02/11/13	1	0.0047	0.02	23	0.43		413913	NA
Bromodichloromethane	TO15SIM	NΔ	02/11/13	1	0.0056	0.00	2.5 ND	0.45 ND		413013	ΝΔ
1 4-Diovane	TO15SIM	NΔ	02/11/13	1	0.0000	0.03				413913	ΝΔ
cis-1 3-Dichloropropene	TO 150IM	NΔ	02/11/13	1	0.0036	0.02	ND			413013	ΝΔ
Methyl Isobutyl Ketone (MIBK)	TO15SIM	NΔ	02/11/13	1	0.0000	0.02	0.66	0.16		413013	ΝΔ
trans-1 3-Dichloropropene	TO15SIM	NA	02/11/13	1	0.0004	0.02	0.00 ND			413913	NA
1 1 2-Trichloroethane	TO 150IM	ΝΔ	02/11/13	1	0.0040	0.02	ND			413013	ΝΔ
Toluene	TO15SIM	NA	02/11/13	1	0.00323	0.02	0.091	0.02		413913	NA
2-Hexanone	TO15SIM	NA	02/11/13	1	0.0089	0.02	0.70	0.17		413913	NA
Dibromochloromethane	TO15SIM	NA	02/11/13	1	0.021	0.04	ND	ND		413913	NA
1,2-Dibromoethane (EDB)	TO15SIM	NA	02/11/13	1	0.0042	0.04	ND	ND		413913	NA
1,1,1,2-Tetrachloroethane	TO15SIM	NA	02/11/13	1	0.0090	0.03	ND	ND		413913	NA
Chlorobenzene	TO15SIM	NA	02/11/13	1	0.0023	0.005	ND	ND		413913	NA
Ethylbenzene	TO15SIM	NA	02/11/13	1	0.0023	0.02	ND	ND		413913	NA
m,p-Xylene	TO15SIM	NA	02/11/13	1	0.0042	0.02	0.10	0.02		413913	NA
Bromoform	TO15SIM	NA	02/11/13	1	0.033	0.1	ND	ND		413913	NA
Styrene	TO15SIM	NA	02/11/13	1	0.0031	0.02	ND	ND		413913	NA
1,1,2,2-Tetrachloroethane	TO15SIM	NA	02/11/13	1	0.0023	0.007	ND	ND		413913	NA
o-Xylene	TO15SIM	NA	02/11/13	1	0.0022	0.02	0.069	0.02		413913	NA
4-Ethyl toluene	TO15SIM	NA	02/11/13	1	0.0034	0.02	ND	ND		413913	NA
1,3,5-Trimethylbenzene	TO15SIM	NA	02/11/13	1	0.0035	0.02	0.039	0.01		413913	NA
1,2,4-Trimethylbenzene	TO15SIM	NA	02/11/13	1	0.0033	0.02	0.083	0.02		413913	NA
1,3-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0056	0.03	ND	ND		413913	NA
1,4-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0052	0.03	ND	ND		413913	NA
1,2-Dichlorobenzene	TO15SIM	NA	02/11/13	1	0.0056	0.03	ND	ND		413913	NA
1,2,4-trichlorobenzene	TO15SIM	NA	02/11/13	1	0.066	0.04	ND	ND		413913	NA
Naphthalene	TO15SIM	NA	02/11/13	1	0.0047	0.03	0.052	0.01		413913	NA
Hexachlorobutadiene	TO15SIM	NA	02/11/13	1	0.11	0.2	ND	ND		413913	NA

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Report prepared for:	David Reinsma Trinity Source Gro	oup						C C	oate Rece Date Repo	ived: 02/05 rted: 02/13	5/13 3/13
Client Sample ID:	SVP-2				Lab Sa	ample ID:		1302008-002A			
Project Name/Location: Project Number:	SVP-2 Re-Sa	mple			Sampl	e Matrix:		Air			
Date/Time Sampled:	01/28/13 /				Certifie	ed Clean \	NO # :				
Canister/Tube ID:	1250				Receiv	ed PSI :		0.0			
Collection Volume (L):	0.00				Correc	ted PSI :		0.0			
Tag Number:	SVP-2 re-san	nple									
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL %	Results %	Results ppmv	Lab Qualifier	Analytical Batch	Prep Batch
Carbon Dioxide	D1946	NA	02/12/13	1.87	0.047	0.047	1.21			413915	NA
Oxygen	D1946	NA	02/12/13	1.87	0.0468	0.0468	17.1			413915	NA
Methane	D1946	NA	02/12/13	1.87	0.0009	0.0009	ND	ND		413915	NA



MB Summary Report

Work Order:	1302008	Prep N	lethod:	NA	Prep Date:		NA	Prep Batch:	NA
Matrix:	Air	Analyt Metho	ical d:	ETO15SIM	Anal	yzed Date:	02/11/13	Analytical Batch:	413913
Units:	ppbv	Metho	u.					Baten.	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Dichlorodifluoromet	hane	0.0036	0.01	ND					
Chloromethane		0.0042	0.01	ND					
Vinyl Chloride		0.0014	0.005	ND					
1,3-Butadiene		0.0099	0.02	ND					
Bromomethane		0.0021	0.005	0.0060	В				
Chloroethane		0.00079	0.005	ND					
Trichloromonofluoro	omethane	0.0022	0.005	ND					
Isopropyl Alcohol		0.0063	0.05	0.081	В				
Acetone		0.011	0.02	0.094	В				
1,1-Dichloroethene		0.0017	0.005	ND					
tert-Butanol		0.0038	0.1	ND					
Methylene Chloride		0.0042	0.01	0.011	В				
Freon 113		0.0017	0.005	ND					
Carbon disulfide		0.00091	0.005	0.0020					
trans-1,2-Dichloroet	hene	0.00094	0.005	ND					
MTBE		0.0017	0.005	ND					
1,1-Dichloroethane		0.0012	0.005	ND					
Vinyl Acetate		0.0014	0.005	0.0020					
Hexane		0.0013	0.005	0.0040					
2-Butanone (MEK)		0.00092	0.005	ND					
DIPE		0.0011	0.005	ND					
cis-1,2-Dichloroethe	ene	0.0010	0.005	ND					
Ethyl Acetate		0.00092	0.005	0.0010					
Chloroform		0.00166	0.005	ND					
ETBE		0.0011	0.005	ND					
Tetrahydrofuran		0.0097	0.02	ND					
1,2-Dichloroethane	(EDC)	0.0012	0.005	ND					
1,1,1-Trichloroethar	ne	0.0015	0.005	ND					
Carbon Tetrachlorid	le	0.0014	0.005	ND					
Benzene		0.011	0.02	ND					
TAME		0.00059	0.005	ND					
Heptane		0.00081	0.005	ND					
1,2-Dichloropropane	Э	0.0010	0.005	ND					
Trichloroethylene		0.0021	0.005	ND					
Bromodichlorometh	ane	0.00083	0.005	ND					
1,4-Dioxane		0.0030	0.005	ND					
cis-1,3-Dichloroprop	bene	0.00079	0.005	ND					
Methyl Isobutyl Keto	one (MIBK)	0.0016	0.005	ND					
trans-1,3-Dichloropr	opene	0.00088	0.005	0.0010					
1,1,2-I richloroethar	ne	0.000590	0.005	ND					
Ioluene		0.0011	0.005	ND					

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MB Summary Report

1302008	Prep	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Air	Analy	tical	ETO15SIM	Anal	yzed Date:	02/11/13	Analytical	413913
ppbv	Metho	od:					Batch:	
	MDL	PQL	Method Blank Conc.	Lab Qualifier				
	0.0022	0.005	ND					
ane	0.0025	0.005	ND					
(EDB)	0.00054	0.005	0.0010					
1	0.0038	0.01	0.010					
ethane	0.0013	0.005	ND					
	0.00050	0.001	ND					
	0.00054	0.005	ND					
	0.00061	0.005	0.0010					
	0.0033	0.01	ND					
	0.00073	0.005	0.0010					
ethane	0.00034	0.001	0.0010					
	0.00051	0.005	ND					
	0.00070	0.005	0.0010					
ene	0.00072	0.005	ND					
ene	0.00068	0.005	0.0010					
e	0.00094	0.005	0.0020					
e	0.00086	0.005	0.0030					
e	0.00094	0.005	0.0010					
ne	0.0090	0.005	ND					
	0.00090	0.005	0.0010					
е	0.0099	0.02	ND					
	0.050	0.1	ND					
1302008	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Air	Analy	tical	D1946	Anal	yzed Date:	02/12/13	Analytical	413915
%	wietho	u:					Batch:	
	MDL	PQL	Method Blank Conc.	Lab Qualifier				
	0.025	0.025	ND					
	0.025 0.025	0.025 0.025	ND ND					
	1302008 Air ppbv ane (EDB) withane withane ene e e e e e e e e ine ine ine ine i	1302008 Prep I Air Analymethod ppbv MDL MDL MDL ane 0.0022 ane 0.0025 (EDB) 0.00054 0.00050 0.00054 0.00054 0.00054 0.00054 0.00054 0.00054 0.00033 0.00073 0.00073 ethane 0.00072 ene 0.00072 ene 0.00094 e 0.00094 e 0.0099 0.050 1302008 Prep I Air Analymethod % MDL	1302008 Prep Method: Air Analytical Method: ppbv MDL PQL ane 0.0022 0.005 ane 0.0025 0.005 (EDB) 0.0013 0.005 0.0050 0.001 0.00054 athane 0.0013 0.005 0.00050 0.001 0.00054 0.00050 0.001 0.00054 0.00050 0.001 0.00054 0.00051 0.0005 0.00033 0.00073 0.005 0.00070 0.00071 0.005 0.00072 athane 0.00072 0.005 0.00072 0.005 0.00072 athane 0.00094 0.005 athane 0.00094 0.005 athane 0.00090 0.005	1302008 Prep Method: NA Air Analytical Method: ETO15SIM ppbv MDL PQL Method Blank Conc. MDL PQL Method Blank Conc. ane 0.0022 0.005 ND 0.0025 0.005 ND 0.0010 (EDB) 0.00054 0.005 ND 0.00050 0.001 ND 0.010 0.00050 0.001 ND 0.0010 0.00050 0.001 ND 0.0010 0.00051 0.005 ND 0.0010 0.00051 0.005 ND 0.0010 0.00073 0.005 ND 0.0010 0.00071 0.005 ND 0.0010 0.00072 0.005 ND 0.0010 0.00072 0.005 ND 0.0020 ene 0.00068 0.005 0.0010 ene 0.00094 0.005 ND 0.00090 0.005 ND <t< td=""><td>1302008 Prep Method: NA Prep Prep Air Analytical Method: ETO15SIM Anal Method pbbv MDL PQL Method Blank Conc. Lab Qualifier ane 0.0022 0.005 ND (EDB) 0.00054 0.005 ND 0.0025 0.005 ND 0.0010 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.001 ND 0.00054 0.005 ND 0.00073 0.005 ND 0.00071 0.005 ND 0.00072 0.005 ND 0.00072 0.005 ND ene 0.00072 0.005 ene 0.00094 0.005 0.00090 0.005 ND ene 0.00094 0.005 ene 0.00090 0.005 0.00090 0.005 ND <t< td=""><td>1302008 Prep Method: NA Prep Date: Air Analytical Method: ETO15SIM Analyzed Date: ppbv MDL PQL Method Blank Conc. Qualifier ane 0.0022 0.005 ND 0.0025 0.005 ND 0.0025 0.005 ND 0.0038 0.01 0.010 0.0038 0.01 0.010 0.00054 0.005 ND 0.00050 0.001 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00073 0.005 0.0010 0.00071 0.005 ND 0.00072 0.005 ND 0.00072 0.005 ND e 0.00086 0.005 e 0.00086 0.005 e 0.0099 0.02 0.050 0.11</td><td>1302008 Prep Method: NA Prep Date: NA Air Analytical Method: ETO15SIM Analyzed Date: 02/11/13 ppbv MDL PQL Blank Conc. Qualifier 02/11/13 ane 0.0022 0.005 ND Qualifier 02/11/13 ane 0.0025 0.005 ND 0.0010 0.0013 0.005 ND 0.00050 0.001 ND 0.00073 0.005 0.0010 0.0007 0.005 ND 0.00071 0.005 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010</td><td>1302008 Prep Method: NA Prep Date: NA Prep Batch: Air Analytical Method: ET015SIM Analyzed Date: 02/11/13 Analytical Batch: ppbv MDL PQL Method Blank Conc. Lab Qualifier 02/11/13 Analytical Batch: ane 0.0022 0.005 ND Qualifier 0.0010 0.005 ane 0.0025 0.005 ND Qualifier 0.0010 0.0010 ane 0.00054 0.005 ND 0.00064 0.005 ND (EDB) 0.00050 0.001 ND 0.00051 0.001 0.0010 0.00054 0.005 ND 0.0010 0.0001 0.0010 0.00010 0.00073 0.005 ND 0.00010 0.00010 0.00010 0.00010 ene 0.00068 0.005 0.0010 0.0010 0.0010 0.00010 ene 0.00090 0.005 ND 0.00010 0.000010 0.000010 <</td></t<></td></t<>	1302008 Prep Method: NA Prep Prep Air Analytical Method: ETO15SIM Anal Method pbbv MDL PQL Method Blank Conc. Lab Qualifier ane 0.0022 0.005 ND (EDB) 0.00054 0.005 ND 0.0025 0.005 ND 0.0010 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.001 ND 0.00054 0.005 ND 0.00073 0.005 ND 0.00071 0.005 ND 0.00072 0.005 ND 0.00072 0.005 ND ene 0.00072 0.005 ene 0.00094 0.005 0.00090 0.005 ND ene 0.00094 0.005 ene 0.00090 0.005 0.00090 0.005 ND <t< td=""><td>1302008 Prep Method: NA Prep Date: Air Analytical Method: ETO15SIM Analyzed Date: ppbv MDL PQL Method Blank Conc. Qualifier ane 0.0022 0.005 ND 0.0025 0.005 ND 0.0025 0.005 ND 0.0038 0.01 0.010 0.0038 0.01 0.010 0.00054 0.005 ND 0.00050 0.001 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00054 0.005 ND 0.00073 0.005 0.0010 0.00071 0.005 ND 0.00072 0.005 ND 0.00072 0.005 ND e 0.00086 0.005 e 0.00086 0.005 e 0.0099 0.02 0.050 0.11</td><td>1302008 Prep Method: NA Prep Date: NA Air Analytical Method: ETO15SIM Analyzed Date: 02/11/13 ppbv MDL PQL Blank Conc. Qualifier 02/11/13 ane 0.0022 0.005 ND Qualifier 02/11/13 ane 0.0025 0.005 ND 0.0010 0.0013 0.005 ND 0.00050 0.001 ND 0.00073 0.005 0.0010 0.0007 0.005 ND 0.00071 0.005 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010</td><td>1302008 Prep Method: NA Prep Date: NA Prep Batch: Air Analytical Method: ET015SIM Analyzed Date: 02/11/13 Analytical Batch: ppbv MDL PQL Method Blank Conc. 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MB Summary Report

Work Order:	1302008	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	flatrix: Air		tical	ETO15	Analy	Analyzed Date:		Analytical	413923
Units:	ppbv	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
TPH-Gasoline		8.1	20.0	ND					

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MB Summary Report

Work Order:	1302008	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Air	Analy	tical	ETO15	Anal	yzed Date:	02/12/13	Analytical Batch:	413924
Units:	ppbv	Metric	u.					Baten.	
				Method	Lab				
Parameters		MDL	PQL	Blank Conc.	Qualifier				
Dichlorodifluoromet	nane	0.30	1.00	ND					
1,1-Difluoroethane		0.18	10.0	ND					
1,2-Dichlorotetrafluc	proethane	0.70	2.00	ND					
Chloromethane		0.15	0.500	ND					
Vinyl Chloride		0.26	1.00	ND					
1,3-Butadiene		0.20	0.500	ND					
Bromomethane		0.18	0.500	ND					
Chloroethane		0.19	0.500	ND					
Trichlorofluorometha	ane	0.32	1.00	ND					
1,1-Dichloroethene		0.15	0.500	ND					
Freon 113		0.11	0.500	ND					
Carbon Disulfide		0.26	1.00	ND					
2-Propanol (Isoprop	vl Alcohol)	0.39	10.0	ND					
Methylene Chloride	,	0.17	1.00	ND					
Acetone		0.37	4.00	ND					
trans-1.2-Dichloroet	hene	0.16	0.500	ND					
Hexane		0.15	0.500	ND					
MTBE		0.24	0.500	ND					
tert-Butanol		0.22	2.00	ND					
Diisopropyl ether (D	IPE)	0.21	0.500	ND					
1.1-Dichloroethane	,	0.18	0.500	ND					
ETBE		0.16	0.500	ND					
cis-1.2-Dichloroethe	ne	0.13	0.500	ND					
Chloroform		0.25	1.00	ND					
Vinvl Acetate		0.16	0.500	ND					
Carbon Tetrachlorid	е	0.14	0.500	ND					
1.1.1-Trichloroethar	e	0.15	0.500	ND					
2-Butanone (MEK)		0.21	0.500	ND					
Ethyl Acetate		0.21	0.500	ND					
Tetrahydrofuran		0.10	0.500	ND					
Benzene		0.21	0.500	ND					
TAME		0.086	0.500	ND					
1,2-Dichloroethane	(EDC)	0.24	0.500	ND					
Trichloroethylene	· · · ·	0.26	1.00	ND					
1,2-Dichloropropane	9	0.29	1.00	ND					
Bromodichlorometh	ane	0.13	0.500	ND					
1,4-Dioxane		0.35	1.00	ND					
trans-1,3-Dichloropr	opene	0.19	0.500	ND					
Toluene		0.25	0.500	ND					
4-Methyl-2-Pentano	ne (MIBK)	0.21	0.500	ND					
cis-1,3-Dichloroprop	ene	0.25	0.500	ND					

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MB Summary Report

Work Order:	1302008	Prep	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Air	Analy	tical	ETO15	Anal	yzed Date:	02/12/13	Analytical	413924
Units:	ppbv	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Tetrachloroethylene	9	0.13	0.500	ND					
1,1,2-Trichloroethar	ne	0.17	0.500	ND					
Dibromochlorometh	ane	0.20	0.500	ND					
1,2-Dibromoethane	(EDB)	0.27	1.00	ND					
2-Hexanone		0.27	1.00	ND					
Ethyl Benzene		0.23	0.500	ND					
Chlorobenzene		0.15	0.500	ND					
1,1,1,2-Tetrachloroe	ethane	0.15	0.500	ND					
m,p-Xylene		0.38	1.00	ND					
o-Xylene		0.19	0.500	ND					
Styrene		0.16	0.500	ND					
Bromoform		0.11	0.500	ND					
1,1,2,2-Tetrachloroe	ethane	0.10	0.500	ND					
4-Ethyl Toluene		0.17	0.500	ND					
1,3,5-Trimethylbenz	zene	0.15	0.500	ND					
1,2,4-Trimethylbenz	zene	0.14	0.500	ND					
1,4-Dichlorobenzen	е	0.11	0.500	ND					
1,3-Dichlorobenzen	е	0.14	0.500	ND					
Benzyl Chloride		0.12	0.500	ND					
1,2-Dichlorobenzen	е	0.15	0.500	ND					
Hexachlorobutadier	ne	0.22	0.500	ND					
1,2,4-Trichlorobenz	ene	0.46	1.00	ND					
Naphthalene		0.28	1.00	ND					
(S) 4-Bromofluorobe	enzene			102					



LCS/LCSD Summary Report

						,		Raw value	es are used in	quality contro	l assessment.
Work Order:	1302008		Prep Meth	od: NA		Prep Dat	te:	NA	Prep Bat	tch: NA	
Matrix:	Air		Analytical	ETO1	5SIM	Analyze	d Date:	02/11/13	Analytic	al 4139	913
Units:	ppbv		Method:						Batch:		
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene)	0.0017	0.005	ND	0.1	96.0	76.0	23.3	70 - 130	30	
Benzene		0.011	0.02	0.00	0.1	94.0	92.0	2.15	70 - 130	30	
Trichloroethylene		0.0021	0.005	ND	0.1	124	85.0	37.3	70 - 130	30	
Toluene		0.0011	0.005	ND	0.1	95.0	76.0	22.2	70 - 130	30	
Chlorobenzene		0.00050	0.001	ND	0.1	101	80.5	22.6	70 - 130	30	
Work Order:	1302008		Prep Meth	od: NA		Prep Dat	te:	NA	Prep Bat	tch: NA	
Matrix:	Air		Analytical	D194	6	Analyze	d Date:	02/12/13	Analytic	al 4139	915
Units:	%		Method:						Batch:		
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Carbon Dioxide		0.0250	0.0250	ND	2500	105	100	4.85	65 - 135	30	
Oxygen		0.0250	0.0250	ND	2500	102	108	5.33	65 - 135	30	
Methane		0.0005	0.0005	ND	2500	91.1	95.9	5.11	65 - 135	30	
Work Order:	1302008		Prep Meth	od: NA		Prep Dat	te:	NA	Prep Bat	tch: NA	
Matrix:	Air		Analytical	ETO1	5	Analyzee	d Date:	02/12/13	Analytic	al 4139	923
Units:	ppbv		wethod:						Batch:		
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline		8.1	20.0	ND	256	92.5	103	10.5	50 - 150	30	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1302008		Prep Meth	od: NA		Prep Da	te:	NA	Prep Bat	t ch: NA	
Matrix:	Air		Analytical	ETO1	5	Analyze	d Date:	02/12/13	Analytic	al 413	924
Units:	ppbv		Method:						Batch:		
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	e	0.15	0.500	ND	8	109	114	4.04	65 - 135	30	L]
Benzene		0.21	0.500	ND	8	111	114	3.00	65 - 135	30	
Trichloroethylene		0.26	1.00	ND	8	121	121	0.310	65 - 135	30	
Toluene		0.25	0.500	ND	8	111	107	3.33	65 - 135	30	
Chlorobenzene		0.15	0.500	ND	8	104	98.4	5.68	65 - 135	30	
(S) 4-Bromofluorol	benzene			ND	8	105	109		65 - 135		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/M3, mg.m3, ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank

D - Surrogate is not recoverable due to the necessary dilution of the sample

E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.

H- Indicates that the recommended holding time for the analyte or compound has been exceeded

J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative

NA - Not Analyzed

N/A - Not Applicable

NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added

R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts

S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative

X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards.

Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Date and Time Received: 2/5/2013 15:30 Client Name: Trinity Source Group Project Name: SVP-2 Re-Sample Received By: patti Work Order No.: 1302008 Physically Logged By: lorna Checklist Completed By: Iorna Carrier Name: Client Drop Off Chain of Custody (COC) Information Chain of custody present? Yes Chain of custody signed when relinquished and received? No Chain of custody agrees with sample labels? No Custody seals intact on sample bottles? Not Present **Sample Receipt Information** Custody seals intact on shipping container/cooler? Not Present Shipping Container/Cooler In Good Condition? Yes Samples in proper container/bottle? Yes Samples containers intact? Yes Sufficient sample volume for indicated test? Yes Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes °С Container/Temp Blank temperature in compliance? No Temperature: Water-VOA vials have zero headspace? No VOA vials submitted Water-pH acceptable upon receipt? N/A pH Checked by: n/a pH Adjusted by: n/a



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Torrent LABORATORY, INC. 483 Sincle Milpitas, O Phone: 40 FAX: 408 www.torre	air Frontage Road CA 95035 08.263.5258 .263.8293 entlab.com	CHA	NIN OF CUS	STODY	LAB WORK ORDER NO
Company Name: TRINITY SCURLEG ROW	PINC.	🕅 Env. 🗋 IH 🔲	Food D Special Location	of Sampling:	
Address SOD Christmat St. Ste	125		Purpose: SUP-2 Y	e-sample	
City: SANTA CRUB State: C	A Zip Code: Q	5060	Special Instructions / Co	mments:	
Telephone (\$31) 426-5600 FAX: \$3	1) 426-5602			· · · · · · · · · · · · · · · · · · ·	
REPORT TO: DANE REINSMA SAMPLER	EFIC CHO)		P.O. #: 154,004	WY EMAIL: a	bstrinity
TURNAROUND TIME: SAM	PLE TYPE: REPOR		It as		
10 Work Days 4 Work Days 1 Work Days S 7 Work Days 3 Work Days Noon - Not Day V	Storm Water Air Waste Water Other CEPF		etcel 1	X ·	ANALYSIS REQUESTED
5 Work Days 2 Work Days 2 - 8 Hours	Soil		E Le Kar		
LAB ID CANISTER I.D. CLIENT'S SAMPLE I.D. DATE	E / TIME MATRIX # OF CONT		29 E 3		REMARKS
-00/A SUP-2 215/12	us Are 1	suma X	XXX		AB
(semple usselle (947)				~	
SUP-2 2/54	3 ATE 1	suma X	XXX-	- HOLD-	- Chease vin
					215/13 & F
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n/					
Relinquished By: Print:	Date: Time:	0 Recei	ved By: Pr	int: Date:	5/12 Time: 15:30
2 Relinquished By: Print:	Date: Time:	Rece	ved By: Pr	int: Date:	Time:
Were Samples Received in Good Condition? Yes NOTE: Samples are discarded by the laboratory 30 day Log In By:	NO Samples on Ice? \square ys from date of receipt unless of $2 - 5 - 13$ Log In Re	Ves NO Metho her arrange men viewed By:	d of Shipment ts are made.	Sample seal Temp°C Date:	Is intact? Yes NO NO N/A Page of

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1 ...

2

GEOTRACKER ESI

UPLOADING A EDF FILE

S	UCCESS
Processing is co Your file has b	omplete. No errors were found! een successfully submitted!
Submittal Type:	EDF
Report Title:	2013 Groundwater Data
Report Type:	Soil and Water Investigation Report
Facility Global ID:	T0600100018
Facility Name:	ABF FREIGHT SYSTEMS
File Name:	TRINITYSCCA-L614282_EDF.zip
Organization Name:	Trinity Source Group, Inc.
Username:	TRINITY SOURCE GROUP
IP Address:	69.198.129.110
Submittal Date/Time:	1/29/2013 2:43:37 PM
Confirmation Number:	5655933439
VIE	EW QC REPORT
VIEW D	ETECTIONS REPORT

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STATE WATER RESOURCES CONTROL BOARD

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type:	EDF
Report Title:	2012 Soil and Groundwater Data
Report Type:	Soil and Water Investigation Report
Facility Global ID:	T0600100018
Facility Name:	ABF FREIGHT SYSTEMS
File Name:	TRINITYSCCA-L612046_EDF.zip
Organization Name:	Trinity Source Group, Inc.
Username:	TRINITY SOURCE GROUP
IP Address:	69.198.129.110
Submittal Date/Time:	1/29/2013 2:40:59 PM
Confirmation Number:	6200485169
VIE	W QC REPORT

VIEW DETECTIONS REPORT

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ATTACHMENT H

Waste Disposal Documentation

	Manifest	<u> </u>	NOIL S	on-H	azardous	, A – T Soils	1,91		↓ Mani	fest# Ψ	
Da	ate of Shipment:	Responsible for I	Payment:	Trar	nsport Truck	#:	Facility #:	Ар	proval Numb	er:	Load #
	1 1			· ·			A07	4	4058	3	QU
Ge	enerator's Name and Billing A	ddress:			Gene	erator's Phor	ne #:				
	ABF FREIGHT				Port	on to Contac	<u> </u>				
	4575 TIDEWATER	AVENUE			ress	Jit to Comac					
	OAKLAND, CA 94	601			FAX	#:		Cu	istomer Accou	unt Number	
Co	onsultant's Name and Billing	Address:			Cons	sultant's Pho	one #:				
					Pers	on to Contac	et:				
					FAX	#:		Cı	istomer Acco	unt Number	
	mombion Site (Transport from). (nama & address)			Site	Phone #•					
Ge		ij. (name o anareos)									
I	4675 TIDEMATER	AVENUE			Pers	on to Conta	et:				
1	OAKLAND, CA. 94	601			TAN	·#,					
					FAX	.#:					
j De	esignated Facility (Transport t	to): (name & address)	•.		Facil	lity Phone #	:				
ş	SOIL SAFE				3)	300) 862-	-8001				
	12328 HIBISCUS /	AVENUE			Pers	ELLENA		,			
ş	ADELANTO, CA 9	2301			FAX	(#;	· · · · · · · · · · · · · · · · · · ·				
					(7	760) 246	-8004		na ana ang ang ang ang ang ang ang ang a	<u></u>	
b Tr	ransporter Name and Mailing	Address:			Trar Q	1sporter's Pl 49-460-6	none #: 1200	l	CA	R0001839	313
	BELSHIRE				Pers	ion to Conta	ct:				
					L	ARRY M	OOTHART	Г		450647	
	1 OO HIEL NANG	1, 07102010	BESI: 216	242	FAX	(#: 40_480_5	3240	C	ustomer Acco	ount Number	
			Contaminate	ed by:	Approx. Qt	v: Desc	ription of Del	ivery G	ross Weight	Tare Weight	Net Weig
	Description of Soil	Moisture Content				-	-				
	Description of Soll	0 - 10%	Gas			ļ					
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FACILITY COPY

NO. 702747

NON-HAZARDOUS WASTE DATA FORM

		BESI #	
·		216242	
	Generator's Name and Mailing Address	Generator's Site Address (if different than mailing address)	
	ABF FREIGHT	ABF FREIGHT	
	4575 TIDEWATER AVENUE	4575 TIDEWATER AVENUE	
	OAKLAND, CA 84601	OAKLAND, CA 94601	
		1	
ŀ	Container tyne removed from site:	Container type transported to receiving faci	lity:
			_
,	🛱 Drums 📮 Vacuum Truck 📮 Roli-off Truck 📮 Dump Truck	C Drums X 🖓 Vacuum Truck D Roll-off	Truck 🖵 Dump Truck
	Other	Gther	
l	0	4	1.1.7 - 11
ш	Quantity of	Quantity Volume	110 gallons
2			V
R			
ЩI	WASTE DESCRIPTION NON-HAZARDODD WATER		
Ξ	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE	PPM %
σ	1. WATER 99-10	0% 3	
	, TPH <	494	
	2	<u></u>	
	Waste Profile PROPERTIES:	pH_ <u>7-10</u> Solid X Liquid 🗋 Sludge 🗋 s	SLURRY DOTHER
		ONAL PROTECTION CLOTHING.	
		\square	
	Generator Printed/Typed Name Signatur	8	' Month Day Year
		(21912
	Larry Moothart of BESI on behalt of generator 1 The Generator certifies that the waste as described is 100% non-hazardous		
	Transporter 1 Company Name	Phone#	
	BEI SHIRE	949-460-	5200
۲. ۲.	Transporter 1 Printed/Typed Name Signatur	re	
Ē	Land Marchan		Month Day Year
۳ ۵		12.	Month Day Year
1	LATTYTUUT MATT	h	Month Day Year
	Transporter Ackrowledgment of Receipt of Materials	Phone#	Month Day Year <u> </u>
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RANSP	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Signature Signatu	Phone# 714-890-	Month Day Year
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TY TRANSP	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Signatur Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address DESAUSTION ACCOUNTS	Phone# 714-890- re Phone# 240.527	Month Day Year A J 9 J 6855 Month Day Year Month Day Year 1 1 1 1
LITY TRANSP	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Signatur Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address DEMENNO KERDOON SPOOD N. ALALIEDA ST	Phone# 714-890- re Phone# 310-537-	Month Day Year <u> A 19 L3</u> 6855 Month Day Year 7100
CILITY TRANSP	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Signatur Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address DEMENNO KERDOON 2000 N. ALAMEDA ST. CONDITION. 00.000000000000000000000000000000000	Phone# 714-990- re Phone# 310-537-	Month Day Year A J P 6855 Month Day Year 1 1 Year 1 1 Year
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