ABF FREIGHT SYSTEM, INC.
P.O. Box 10048
Fort Smith, AR 72917-0048
479-785-8700

abf.com

November 15, 2011

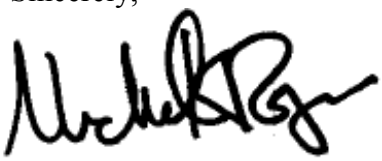
Mr. Mark Detterman, RG, CEG
Senior Hazardous Materials Specialist
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Perjury Statement-**
Soil and Groundwater Investigation Work Plan
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

November 4, 2011
Project 154.003.001

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 and Groundwater Investigation Work Plan*
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 and Groundwater Investigation Work Plan (Work Plan)* for the referenced site (Figures 1 and 2). This *Work Plan* was requested by Alameda County Environmental Health Department (ACEH) in a letter dated August 16, 2011. The ACEH letter is included in Attachment A of this *Work Plan*.

BACKGROUND

The site encompasses approximately 1.4 acres situated between Tidewater Avenue and the water channel extending north from San Leandro Bay, separating the cities of Alameda and Oakland (Figures 1 and 2). Land-use in the area is industrial.

Currently the site is in use as a trucking terminal, with a maintenance building located near the western property boundary. One aboveground storage tank currently exists adjacent to the maintenance building, and is labeled with “Diesel Fuel”, “Not in Use”, and “Permanently Closed Jan. 1995”. An underground clarifier is in use near the maintenance building. The underground storage tanks (USTs) at the site were also located near the maintenance building.

Limited documentation of previous site environmental work is currently available. The available records indicate the following site investigation history.

In 1986, a site investigation was conducted to investigate the condition of existing tanks at the subject site. Two 10,000-gallon diesel, one 800-gallon motor oil, and one 800-gallon waste oil USTs were present. One of the diesel USTs was reported to have previously contained gasoline.

A leak in the product lines was discovered and repaired, and documented in an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report dated June 30, 1986.

The 1986 investigation was conducted by Azonic and included tank testing, tank removal, soil sampling and groundwater monitoring. Specifically, Azonic conducted removal of the two 800-gallon USTs, removal of sludge beneath the leaking oil UST, installation of borings A-1 to A-4, and the collection of soil and groundwater samples. Additional investigation presented in a report by Weston dated February 25, 1987 included installation of additional soil borings (S-1 through S-3), and installation of two groundwater monitoring wells (MW-1 and MW-2). Locations of these sampling locations are shown on Figure 3. Soil and groundwater analytical results included with the Weston report are presented on Tables 1 and 2. The Azonic report with results from borings A-1 through A-4 is not currently available to Trinity. However, soil and groundwater analytical results were summarized in the Weston report as follows:

> "Soil boring S-3 contained the highest level of total petroleum hydrocarbons (TPH), 34 mg/kg. TPH levels in the remaining soil samples were less than 1 mg/kg and benzene, toluene, xylene (BTX) levels were less than 0.1 mg/kg for all soils samples. Previous soil sampling by Azonic in four boring locations (A-1 through A-4) showed TPH ranging from 10 mg/kg to 14 mg/kg.
>
> Groundwater samples were collected and analyzed in October 1986 from monitoring wells MW-1 and MW-2. Concentrations in groundwater at MW-1 were TPH at 4.5 mg/L, benzene at 1.6 mg/L and xylene at 1.0 mg/L. Concentrations in MW-2 only showed benzene at 0.009 mg/L and no TPH was detected."

In 1987, one of the 10,000-gallon diesel tanks was removed under the direction of Weston, as documented in the February 25, 1987 report. No holes were observed in the tank, but corrosion was noted in several areas on the tank. Several yards of soil and approximately 500 gallons of water were removed from the tank excavation after tank removal. Soil and water samples were collected from the excavation and analyzed; the results are summarized on Table 3. The Certificate of Disposal is included in the Weston report; it indicates that H&H Ship Service Company (H&H) transported the tank to Levin Metals Corporation, as H&H Job Number 4499. The Certificate of Disposal for this tank is included in Attachment B.

The confirmation samples collected during UST removal included one groundwater sample and two soil samples. The groundwater sample was reported by Weston to have total petroleum hydrocarbons (TPH) at a concentration of 721 mg/L, and non-detectable benzene, toluene, ethylbenzene and xylenes (BTEX). The soil samples had 681 mg/kg and 108 mg/kg TPH, and non-detectable BTEX. The analytical results are summarized on the attached Table 3.

No documentation of the removal of the smaller motor oil and waste oil USTs is currently available; however, Weston reported that all USTs except for one diesel UST remained at the site following their work. The disposal of the remaining tank is documented in a Certificate of Disposal from H&H Ship

Service Company, dated July 30, 1987, for H&H Job Number 5804. The Certificate of Disposal for this tank is included in Attachment B.

October 2011 Well Development and Sampling

Trinity redeveloped Wells MW-1 and MW-2 on October 13, 2011. Each well was surged using a surge block, and then pumped in an effort to remove at least 10 casing volumes of water. Well MW-1 produced the calculated volume, but Well MW-2 was slow to recharge and only approximately 5 casing volumes were removed.

Trinity sampled Wells MW-1 and MW-2 on October 17, 2011. Groundwater samples were analyzed by ESC Laboratory Sciences of Mt. Juliet, Tennessee (NELAP 01157CA) for the following:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Methods 8015D
- TPH as diesel (TPHd) by 3511/8015 with and without silica gel cleanup. The TPHd result was the sum of the C10 to C22 and C22 to C32 Hydrocarbons.
- TPH as Oil and Grease by EPA Method 1664
- TPH as Motor Oil (TPHmo) by EPA Method 3511/8015 (extended TPHd range, C32-C40 Hydrocarbons) with and without silica gel cleanup
- Volatile Organic Compounds (VOCs) full scan by EPA Method 8260
- Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270 SIM

Field procedures are presented in Attachment C, field data sheets are included in Attachment D, the certified analytical report is presented in Attachment E, and disposal documentation for the well development and purge water is included in Attachment F.

The depth to groundwater on the sample date was 4.56 feet below ground surface (bgs) in Well MW-1, and 3.87 feet bgs in Well MW-2. Analytical results are summarized on Table 2 and are discussed below.

TPH

TPHg was detected only in Well MW-1, at a concentration of 660 micrograms per liter (µg/L), and was not detected in Well MW-2.

TPHd without silica gel cleanup was detected in both Wells MW-1 and MW-2, at respective concentrations of 6,680 µg/L and 730 µg/L.

TPHd with silica gel cleanup was detected in both Wells MW-1 and MW-2, at respective concentrations of 4,520 µg/L and 600 µg/L.

TPHmo was detected in Well MW-1 at 110 µg/L without silica gel cleanup, and in Well MW-2 at 64 µg/L.

TPHmo with silica gel cleanup was detected in Well MW-1 at 33 µg/L, and in Well MW-2 at 69 µg/L.

VOCs

Petroleum-hydrocarbon VOCs were detected primarily in Well MW-1, including benzene at 11 µg/L, ethylbenzene at 0.93 µg/L, naphthalene at 56 µg/L, toluene at 1.1 µg/L, and total xylenes at µg/L. The other VOCs reported are also petroleum hydrocarbons, with the exception of acetone which was detected at a concentration of 8.4 µg/L.

In Well MW-2, the only VOCs detected were acetone at 11 µg/L, and naphthalene at 1.0 µg/L.

PAHs

Well MW-1 was reported to contain several PAHs, including the following:

- Anthracene at 0.056 µg/L
- Acenaphtene at 0.69 µg/L
- Acenaphthylene at 0.20 µg/L
- Fluoranthene at 0.049 µg/L
- Fluorene at 1.5 µg/L
- Naphthalene at 31 µg/L
- Phenanthrene at 0.29 µg/L
- Pyrene at 0.041 µg/L
- 1-Methylnaphthalene at 13 µg/L
- 2-Methylnaphthalene at 13 µg/L

Well MW-2 had fewer PAHs reported, including:

- Acenaphthene at 0.097 µg/L
- Fluorene at 0.022 µg/L
- Naphthalene at 0.57 µg/L
- Pyrene at 0.021 µg/L
- 1-Methylnaphthalene at 0.096 µg/L
- 2-Methylnaphthalene at 0.088 µg/L

In general, Well MW-1 had more compounds detected, and at higher concentrations than Well MW-2. This result is expected, because Well MW-1 is closer to the former USTs, and concentrations attenuate in the presumed downgradient direction, towards MW-2. In addition, significant attenuation of hydrocarbon

concentrations has occurred since 1986; for example, TPHg in Well MW-1 declined from 4,520 µg/L in 1986 to 660 µg/L in 2011, and benzene in Well MW-1 declined from 1,590 µg/L to 11 µg/L.

The chemicals detected were compared to Environmental Screening Levels[1] (ESLs), as a preliminary risk screening. ESLs are based on conservative risk-based numbers assembled by the California Regional Water Quality Control Board, San Francisco Bay Region, to evaluate detections of chemicals in soil, groundwater and soil gas. Detections less than ESLs generally do not warrant further evaluation. Detections greater than ESLs may warrant further evaluation based on site-specific conditions. For this site, the ESLs for "industrial/commercial land use" and "groundwater not used as a drinking water resource" were used.

TPHd is the only constituent that exceeds ESLs at both Wells MW-1 and MW-2. In addition, ESLs are exceeded at Well MW-1 for Naphthalene and 2-Methylnaphthalene. Well MW-2 exceeded the ESL for TPH Oil and Grease. ESLs exceeded are primarily for protection of aquatic habitat, assuming that the local shallow groundwater is not utilized as a drinking water source.

SITE CONCEPTUAL MODEL

An initial site conceptual model (SCM) for the subject site is outlined below and presented on Figure 4. The SCM is an iterative process for evaluating current and future risk to human health and the environment associated with the UST releases at the site. As described in the 2010 *Draft California LUFT Manual*, the initial SCM provides a general idea of conditions at the site, and indicates what type of additional information, if any, may be needed to determine the degree of risk associated with the site. The elements of this initial SCM include the hydrogeologic setting, the source, and potential exposure pathways, as discussed below.

Hydrogeologic Setting

The site is located in the vicinity of Oakland Harbor, an area of low topographic relief. Weston reported that the site is underlain by up to 10 feet of compacted fill materials, underlain successively by tidal marsh deposits and Bay mud.

Groundwater was measured in October 2011 at a depth of approximately 4 feet bgs; due to the flat topography and the nearby surface water, it is likely that groundwater levels do not fluctuate significantly.

The direction of shallow groundwater flow has not been measured at the site. However, it is expected that groundwater would flow generally towards the surface water, or west to southwesterly. A nearby site on Geotracker reported groundwater flow towards the surface water, with depth to water ranging between 0.6 and 6 feet bgs. Assuming that the subject site would have similar depth to groundwater, the

[1] *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/sanfranciscobay/esl.htm, updated May 2008.

shallowest groundwater would occur within artificial fill materials, which could have variable hydraulic conductivity.

The UST area is fully paved, limiting surface water recharge and limiting environmental exposure of potentially impacted soils.

According to the San Francisco Bay Regional Water Quality Control Board, the site is located within the South Bay Hydrologic Planning Area, in the Santa Clara Valley, East Bay Plain Groundwater Basin. The beneficial uses of groundwater beneath the site include municipal, process, industrial, and agricultural use.

Source

The released materials are petroleum hydrocarbons, potentially including diesel, gasoline, and used and new motor oil. The releases may have occurred via leaks in the product piping or tanks, or overfilling. Based on the limited data currently available, soil and shallow groundwater are impacted with TPHd, TPHg, and various VOC and PAH compounds. The lateral and vertical extents of impacts to soil and groundwater are not currently known.

Potential Exposure Pathways

As described in the 2010 Draft California LUFT Manual, pathways are mechanisms by which a receptor may contact the chemicals of concern at a site. Exposure pathways include (1) a source of contaminants, (2) an exposure point where the receptor may come into contact with contaminants, and (3) an exposure route. Figure 3 presents an overview of potential exposure pathways.

Based on currently-available data, the SCM analysis suggests the following:

- All exposure pathways associated with surface soils are incomplete, because the site is fully paved.
- The groundwater exposure pathways present the following data gaps:
    - Lateral migration to surface water may occur, potentially exposing ecological receptors to chemicals of concern
    - Volatilization of chemicals of concern from groundwater to indoor air presents a potentially-complete exposure pathway to commercial and construction workers
- The subsurface soil exposure pathways associated with construction worker dermal contact with chemicals of concern are potentially complete. However, these potential exposures are short-term, and are easily mitigated by establishing safe work practices (such as utilizing personal protective gear) for any work involving surface disturbance.

SCOPE OF WORK

The scope of work herein is designed to determine the extent of hydrocarbons in shallow soil and groundwater, the groundwater flow direction at the site, and the potential presence of hydrocarbons in the sub-slab vapor beneath the existing maintenance building at the site. The scope of work includes:

- Drilling and sampling a minimum of six source area borings (B-1 through B-6) to delineate vertical impacts at each of the former UST locations. Two borings are proposed at each of the two former diesel USTs, and one boring is proposed at each of the two former waste oil USTs.
- Installing and sampling two additional groundwater monitoring wells (MW-3 and MW-4), located north and south of former UST area, to delineate the extent of hydrocarbons in groundwater.
- Installing and sampling two sub-slab vapor probes (SVP-1 and SVP-2) inside the existing maintenance building adjacent to the former USTs, to determine whether sub-slab vapor is impacted with hydrocarbon vapors.
- If the initial six borings indicate impacts based on field evidence, up to four additional borings (B-7 through B-10) would be drilled and sampled at distances approximately 20 feet lateral from the impacted borings. These would be located to delineate the lateral extent of hydrocarbons in soils.

Figure 5 shows the proposed locations of monitoring wells, soil borings and sub-slab probes. Field procedures are presented in Attachment C.

The following tasks will be completed:

Prefield

Prefield tasks will include obtaining any necessary permits, preparing a site-specific health and safety plan, and notifying inspectors as needed. In addition, Trinity staff will mark drilling locations and notify Underground Service Alert for utility clearance.

Soil Boring Drilling and Sampling

Trinity will oversee a licensed, subcontracted driller in advancing and sampling the six to ten soil borings, utilizing direct-push sampling equipment. The boreholes will be continuously sampled, by pushing a 2 to 4-foot sample barrel with acetate liners into the soil. The liners will be retrieved and logged by Trinity staff under the supervision of a California Professional Geologist. The borings at the former diesel UST locations will be drilled to a maximum depth of approximately 25 feet bgs. The borings at the former waste oil UST locations will be advanced to an estimated maximum depth of approximately 20 feet bgs. Samples will be preserved by cutting and capping select sections of the acetate liners, labeling the samples, and chilling for transport to the laboratory. Following sampling, the borings will be abandoned by backfilling with neat cement grout.

Groundwater Monitoring Well Installation

The two proposed wells will be installed using the same drilling contractor and equipment as the soil borings. The wells will be installed using small-diameter (3/4-inch) pre-paced well screens with riser pipe, in the direct-push borehole. The maximum depth of the wells is estimated at 15 to 20 feet bgs, with screen extending up to approximately 4 feet bgs to intercept the static water level. The wells will be completed with a bentonite and neat cement grout from the top of the pre-packed screen to the ground surface, and a traffic-rated vault box will be installed to protect each well. The wells will be surveyed to GeoTracker standards by a licensed surveyor.

Trinity will develop each new well at least 24 hours following well installation, by surging and bailing to remove a minimum of 10 casing volumes, in order to remove fine-grained materials and reduce sample turbidity. A minimum of 72 hours following well development, the wells will be sampled following standard procedures. The samples will be placed into laboratory-supplied containers appropriate for the requested analyses, labeled, chilled, and transmitted to a laboratory as described below. Groundwater elevations measured in the new and existing wells will be used to determine the groundwater flow direction at the site.

Sub-Slab Vapor Probe Installation and Sampling

Trinity will install two sub-slab vapor probes (SVP-1 and SVP-2) inside the existing maintenance building at the site. A minimum of one week after installation, Probes SVP-1 and SVP-2 will be sampled. Procedures will follow current regulatory guidance as presented in Attachment C.

Laboratory Analysis

Up to two soil samples per boring (for a total of 12 to 20 samples) and two groundwater samples will be submitted under chain-of-custody to ESC Lab Sciences of Mt. Juliet, Tennessee (NELAP#-1157CA) for the following analyses:

- All soil and groundwater samples will be analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015, and for BTEX, MTBE, TBA and naphthalene by EPA Method 8260.
- The soil samples which are from the former waste oil USTs and any additional samples to further delineate impacts from these USTS will also be analyzed for PAHs by EPA Method 8270C SIM, for chlorinated VOCs by EPA Method 8260 (8010 list), and for the metals cadmium, chromium, nickel, lead and zinc by EPA Method 6020/200.8.

Sub-slab vapor samples will be submitted under chain-of-custody protocol to Torrent Laboratory, Inc., of Milpitas, California, a State-certified analytical laboratory (ELAP #1991). These samples will be analyzed for the following:

- TPHg, and VOCs by EPA Methods TO-3 and TO-15. In addition, naphthalene will be sampled and analyzed by TO-17. Helium (the leak test compound) will be analyzed by Method ASTM-1946D.

All soil, groundwater and sub-slab vapor samples will be analyzed within the specified hold times for the analyses proposed.

Reporting

The methods, findings, and results of the work proposed herein will be presented in a report, which will include a site map, chain-of custody documentation, and certified analytical reports, along with conclusions and recommendations based on the data collected. The data will be used to update the Site Conceptual Model, to recommend whether additional activities are warranted. The site data and report will be uploaded to GeoTracker.

SCHEDULE

Trinity will initiate the proposed scope of work after an approval letter of this *Work Plan* is received from the ACEH. Upon approval to proceed, and under normal circumstances, the investigation will take approximately 8 to 10 weeks to complete. The results report will be submitted within 8 to 12 weeks after receipt of all analytical data.

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.

David A. Reinsma, PG
President and Principal Geologist

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

Attachments:

Table 1:	Soils Analytical Data
Table 2:	Groundwater Analytical Data
Table 3:	UST Removal Analytical Data

Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Former UST Area Site Map
Figure 4: Site Conceptual Model Flow Chart
Figure 5: Proposed Monitoring Well, Soil Boring and Sub-Slab Vapor Probe Map

Attachment A: ACEH Letter
Attachment B: UST Certificates of Disposal
Attachment C: Field Procedures
Attachment D: Field Data Sheets
Attachment E: Certified Analytical Report, Chain-of-Custody Documentation, and GeoTracker Upload Confirmation
Attachment F: Purge Water Disposal Documentation

DISTRIBUTION

A copy of this report has been forwarded to:

Mr. Chris Brown
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 lgriffin@oaklandnet.com)

TABLES

Table 1
Soils Analytical Data

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

Sample ID	Sample Date	Sample Depth (ft)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	Notes
MW-1	9/15/1986[a]	4-1/2-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/15/1986[a]	4-1/2-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/15/1986[a]	9-1/2-10	<0.05	<0.001	<0.001	<0.001	Gasoline
S-1	9/15/1986[a]	4-1/2-5	<0.05	<0.001	<0.001	**0.022**	Gasoline
S-2	9/15/1986[a]	4-1/2-5	<0.05	<0.001	<0.001	<0.001	Aged Gasoline
S-3	9/15/1986[a]	4-1/2-5	**34**	**0.012**	**0.01**	**0.058**	Aged Gasoline

Notes:
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
ID = Identification
TPHg = Total Petroleum Hydrocarbons, gasoline-range organics
MW = Monitoring Well
mg/kg = milligrams per kilogram
< = not detected at above detection limit
TPH = Total petroleum hydrocarbons

Table 2
Groundwater Analytical Data

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

Sample ID	Sample Date	Depth to Groundwater (ft)	EPA Method: 1664A	8015D/G	3511/80				Volatile Organics: 8260B						
			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	4.56	<1,300	**660**	**6,680**	**110**	**4,520**	**33**	**8.4**	**11**	**0.93**	**56**	**1.1**	**3.3**	**A**
MW-2	9/15/1986[a]	NA	NA	<50	NA	NA	NA	NA	NA	**9**	**NA**	NA	<1	<1	
	10/17/11	3.87	**1,700**	<40	**730**	**64**	**600**	**69**	**11**	<0.10	<0.11	**1.0**	<0.15	<0.50	**none**
		ESL (Industrial Land Use, Non-Drinking Water Source)	210	210	210	210	210	210	1,500	46	43	24	130	100	

Sample ID	Sample Date	Depth to Groundwater (ft)	Polynuclear Aromatic Hydrocarbons - EPA METHOD 8270C: Acenaph-thene (µg/L)	Acenaph-thylene (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**	**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	<0.013	**<0.016**	**0.022**	**0.57**	**0.096**	**0.088**	<0.018	**0.021**	**none**
		ESL (Industrial Land Use, Non-Drinking Water Source)	23	30	0.73	8.0	1.5	24	NLE	2.1	4.6	2.0	

Notes:

Note: Please reference lab report for all qualifers and notes.
ID = Identification
EPA = Environmental Protection Agency
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
TPHg = Total Petroleum Hydrocarbons, gasoline-range 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)
ESL = Environmental Screening Level (ESL) listed i *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/sanfranciscobay/esl.htm, updated May 2008
MW = Monitoring Well
µg/L micrograms per liter (equivalent to parts per billion)
< = not detected at above detection limit

Table 2
Groundwater Analytical Data

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

			EPA Method												
			1664A	8015D/G	3511/80				Volatile Organics: 8260B						
Sample ID	Sample Date	Depth to Groundwater (ft)	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

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, Isopropylbenzene 11 µg/L, n-Propylbenzene 21 µg/L, and 1,2,3-trimethylbenzene 1.2 µg/L
NLE = No level established

Table 3
UST Removal Analytical Data

ABF Freight System
4575 Tidewater Avenue
Oakland, California

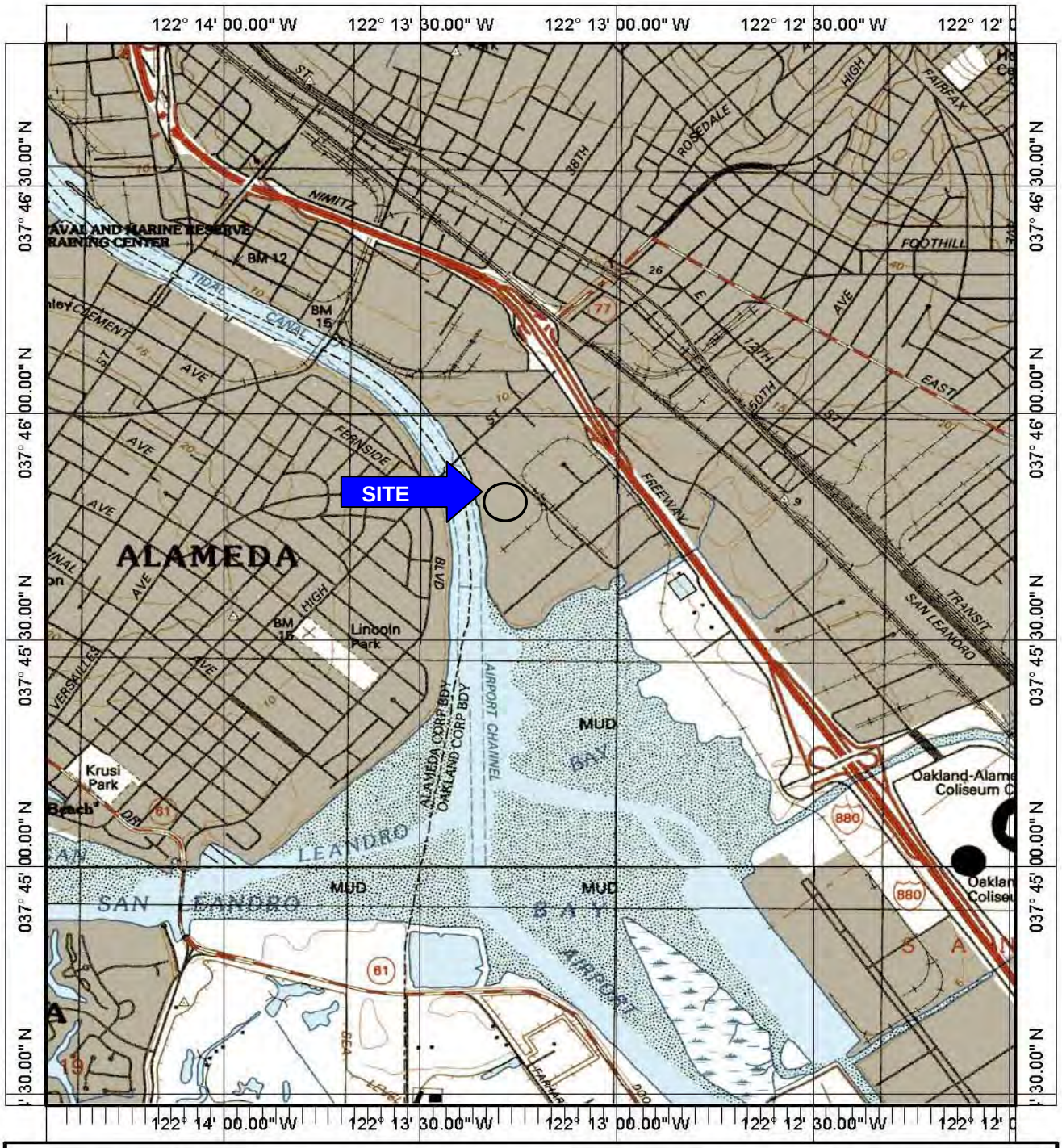
Water Sample ID	Sample Date	Depth (feet)	EPA Method 418.7	EPA Method 8010				
			TPH (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes* (µg/L)	Notes:
SPU-02	1/8/1987	NA	721	ND<2	ND<2	ND<2	ND<2	

Soil Sample ID	Sample Date	Depth (feet)	EPA Method 418.7	EPA Method 8010				
			TPH (mg/kg)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes* (µg/L)	Notes:
SPU-03	1/8/1987	NA	681	ND<10	ND<10	ND<10	ND<10	a
SPU-04	1/8/1987	NA	108	ND<10	ND<10	ND<10	ND<10	a

Notes:

EPA = Environmental Protection Agency
TPH = Total petroleum hydrocarbons
mg/kg = milligrams per kilogram also equivalent to parts per million (ppm)
* = Laboratory reported m-Xylene, p-Xylene, and o-Xylene separately, each with detection limit shown.
< = not detected at above detection limit
a = Units (µg/L) are as shown on analytical report from Weston, dated 2/12/1987; Trinity assumes this is an error and should be mg/kg or µg/kg.

FIGURES



Name: OAKLAND EAST
Date: 10/14/2011
Scale: 1 inch equals 2000 feet

Location: 037° 45' 38.74" N 122° 13' 13.22" W NAD 27
Caption: San Francisco Bay, Oakland East Quadrangle, 1: 24,000

Copyright (C) 2002, Maptech, Inc.

TRINITY source group, inc.
Environmental Consultants
500 Chestnut Street, Suite 225
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

Site Location Map

ABF Freight System Facilty
4575 Tidewater Avenue
Oakland, California

PROJECT:
154.003.001

FIGURE:
1

Ref: 154_00 154-003.001 fig2-3.dwg
Base Map from Google Earth, 2009

PREPARED BY

TRINITY source group, inc.
Environmental Consultants

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

SITE MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.003.001

FIGURE:
2

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Santa Cruz, California 95060
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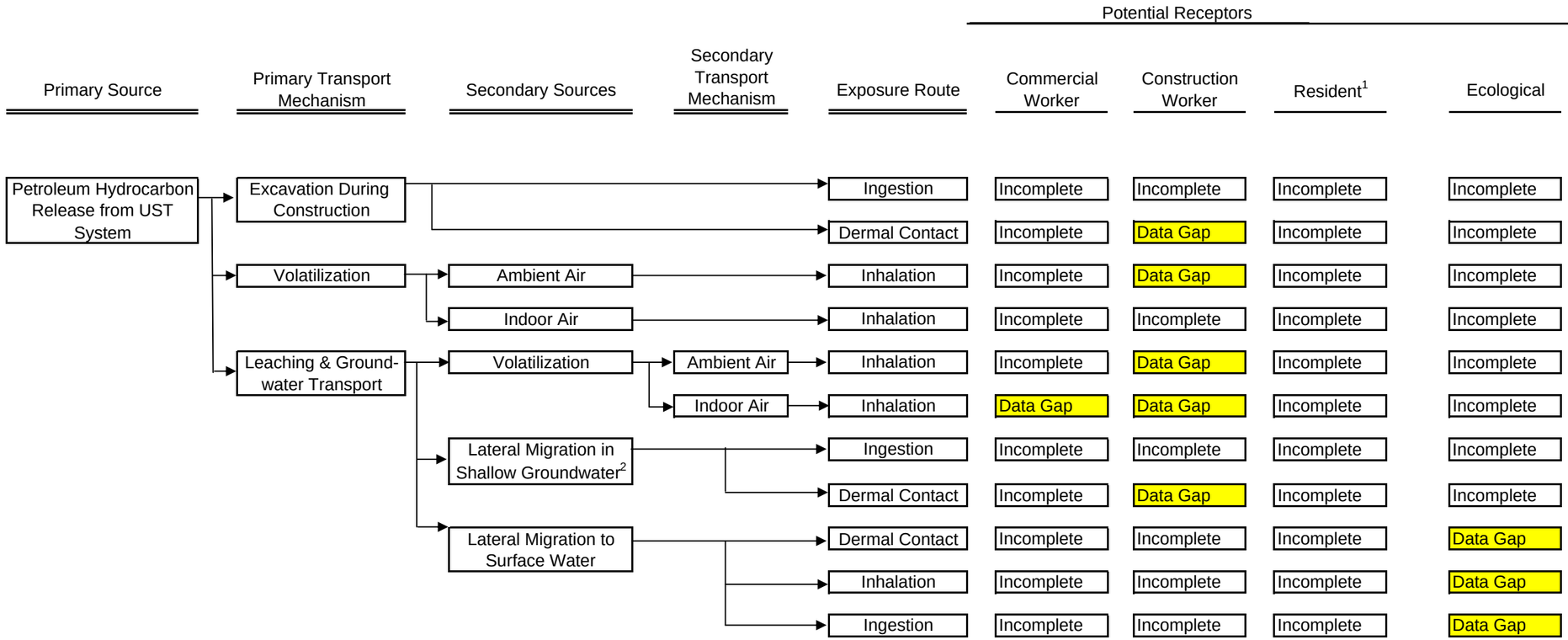
f: 831.426.5602

FORMER UST AREA SITE MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.003.001

FIGURE:
3



NOTES:

Incomplete	Exposure route is incomplete
COMPLETE	Potential receptor may be exposed via this route

1 No residential receptors present in the site area.
2 Drinking water and industrial water beneficial use receptors are incomplete, based on shallow depth of impacts.
3 Assumes excavation activities will not extend beyond approximately 5 feet in depth
4 Exposure would be short-term and addressed through safe work practices

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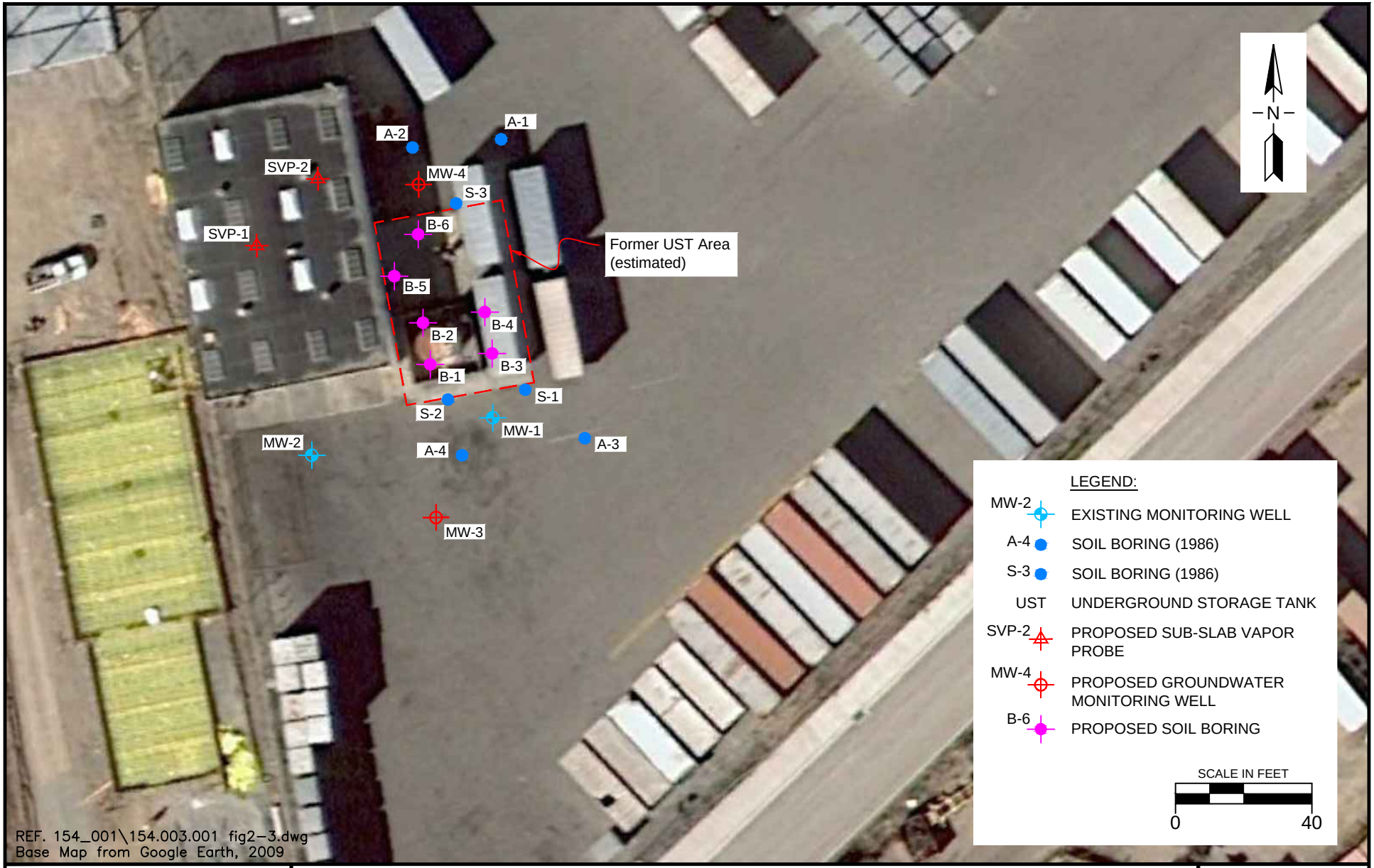
SITE CONCEPTUAL MODEL FLOW CHART

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

PROJECT: 154.002.001

FIGURE: 4



PREPARED BY

TRINITY source group, inc.
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Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

PROPOSED GROUNDWATER MONITORING WELL, SOIL BORING AND SUB-SLAB VAPOR PROBE LOCATION MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.003.001

FIGURE:
5

ATTACHMENT A

ACEH Letter Dated August 16, 2011

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

August 16, 2011

Arkansas Bandag Corporation
PO Box 10048
Fort Smith AR 72917

Mr. Mike Rogers
ABF Freight Systems, Inc.
PO Box 10048
Fort Smith AR 72917

Subject: Geotracker Compliance and Work Plan Request; Fuel Leak Case No. RO0003033 and GeoTracker Global ID T0600100018, ABF Freight Systems, 4575 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Rogers:

As part of a larger review process to move cases toward closure Alameda County Environmental Health (ACEH) staff has reviewed files associated with the case. In June 1986 a site investigation was conducted to investigate the condition of existing tanks at the subject site. Two 10,000-gallon diesel, one 800-gallon motor oil, and one 800-gallon waste oil USTs were present. One of the diesel USTs is reported to have previously contained gasoline. A leak in the gasoline product lines had been discovered and previously repaired at that time. Part of the work included removal of the two 800-gallon USTs, removal of sludge beneath the leaking oil UST, installation of bores A1 to A4 and the collection of soil and groundwater samples; contamination was documented in soil and groundwater. In September 1986 wells MW-1 and MW-2 and bores S-1 to S-3 were installed. Concentrations up to 34 mg/kg "Motor Fuel" in soil; and 452,000 µg/l "Motor Fuel" and 1,590 µg/l benzene were documented in groundwater collected from well MW-1. On January 8, 1987, one 10,000-gallon UST was removed. The status of the second 10,000-gallon UST is not known. Concentrations of up to 681 TPH in soil and up to 721,000 µg/l TPH in tank pit water were documented at the time of the tank removal. These data indicate that a release has occurred and impacted soil and groundwater at the site. These data also suggest that there are several contaminants of concern at the site. In order to evaluate your site and progress to case closure, additional information and a soil and groundwater investigation is needed.

Based on the review of the case file, ACEH requests that you address the following technical comments and send us the documents requested below.

TECHNICAL COMMENTS

1. **Request for Geotracker Compliance** – A review of the case file and the State's GeoTracker database indicates that the site has not been claimed. Because this is a state requirement, ACEH requests that the site be claimed in GeoTracker by the date identified below.

   Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. Also, beginning January 1, 2002, all permanent monitoring points utilized to collect groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude to sub-meter accuracy using NAD 83. A California licensed surveyor may be required to perform this work. Additionally, pursuant to California Code of Regulations, Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3893, 3894, and 3895, beginning July 1, 2005, the successful submittal of electronic information (i.e. report in PDF format)

shall replace the requirement for the submittal of a paper copy. Please claim your site and upload all future submittals to GeoTracker and ACEH's ftp server by the date specified below. Electronic reporting is described below on the attachments.

Additional information regarding the SWRCB's GeoTracker website may be obtained online at http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/ and http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml) or by contacting the GeoTracker Help Desk at geotracker@waterboards.ca.gov or (866) 480-1028.

2. **Request for Information** – ACEH's case file for the subject site contains only the electronic files listed on our website at http://www.acgov.org/aceh/lop/ust.htm. ACEH requests that you submit copies of all subsequent reports, data, correspondence, etc., related to environmental investigations for this site (including Phase 1 reports, if available) by the date identified below.

3. **Request for a Work Plan** – In order to define the extent of any soil and groundwater contamination (lateral, downgradient, and vertical in soil and groundwater), ACEH requests the submittal of a work plan by a consultant qualified to undertake the work by the date identified below.

Underground Storage Tank Cleanup Fund – Please be aware that site investigation/site cleanup costs may be reimbursable from the California Underground Storage Tank Cleanup Fund. The application and additional information is available at the State Water Resources Control Board's website at http://www.waterboards.ca.gov/water_issues/programs/ustcf. Please be aware that reimbursement monies are contingent upon maintaining compliance with directives from ACEH. Additional information about the USTCF can be found below in the attachments to this letter.

TECHNICAL REPORT REQUEST

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **September 30, 2011** – Claim Site in Geotracker and Information Uploads
- **November 4, 2011** - Work Plan
- **60 Days After Work Plan Approval** – Soil and Groundwater Investigation 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.

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

Sincerely,

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email, c=US
Date: 2011.08.16 16:58:06 -07'00'

Mark Detterman, PG, CEG
Senior Hazardous Materials Specialist

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

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (Sent via E-mail to: lgriffin@oaklandnet.com)
Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Case Electronic File

Attachment 1

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	ISSUE DATE: July 5, 2005
	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 do not 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 deh.loptoxic@acgov.org
   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 deh.loptoxic@acgov.org 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 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 (in PDF format). Please visit the SWRCB website for more information on these requirements (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.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ENVIRONMENTAL HEALTH DEPARTMENT
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Certified Mail #: 7009 2820 0001 4372 7567

August 15, 2011

NOTICE OF RESPONSIBILITY

Site Name & Address:
ABF FREIGHT SYSTEMS
4575 TIDEWATER AVE
OAKLAND, CA 94601

Local ID: RO0003033
Related ID: NA
RWQCB ID: 01-0022
Global ID: T0600100018

Responsible Party:

MIKE ROGERS
ABF FREIGHT SYSTEMS
PO BOX 10048
FORT SMITH AR 72917-0048

Date First Reported: 7/3/1986
Substance: 12031,12034,12035 Multiple Releases
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified ARKANSAS BANDAG CORPORATION as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker DETTERMAN, MARK, at this office at (510)567-6876 if you have questions regarding your site.

Date 8/16/2011

ARIU LEVI, Director
Contract Project Director

Action: Add
Reason: New Case

Attachment A: Responsible Parties Data Sheet

cc: Jenniffer Jorden, SWRCB, D. Drogos (Sent via electronic mail to donna.drogos@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

August 15, 2011

Site Name & Address:
ABF FREIGHT SYSTEMS
4575 TIDEWATER AVE
OAKLAND, CA 94601

Local ID:	**RO0003033**
Related ID:	**NA**
RWQCB ID:	**01-0022**
Global ID:	**T0600100018**

All Responsible Parties

RP has been named a Primary RP -
ARKANSAS BANDAG CORPORATION
PO BOX 10048 | FORT SMITH, AR 72917-0048 | Phone No Phone Number Listed

RP has been named a Primary RP - MIKE ROGERS
ABF FREIGHT SYSTEMS
PO BOX 10048 | FORT SMITH, AR 72917-0048 | Phone (501) 785-6000

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

ACEH has named the responsible parties for this site as detailed below.

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

August 15, 2011

Responsible Party Identification

Responsible Party Identification

Existence of Unauthorized Release

In June 1986 a site investigation was conducted to investigate the condition of existing tanks at the subject site. Two 10,000-gallon diesel, one 800-gallon motor oil, and one 800-gallon waste oil USTs were present; one of the 10,000-gallon USTs is reported to have previously held gasoline until approximately 1983. A leak in the gas product lines had been discovered and previously repaired. Part of the work included removal of the two 800-gallon USTs, removal of sludge beneath the leaking UST (undefined), installation of bores A1 to A4 and the collection of soil and groundwater samples; contamination was documented in soil and groundwater. In September 1986 wells MW-1 and MW-2 and bores S-1 to S-3 were installed. Concentrations up to 34 mg/kg "Motor Fuel" in soil; and 452,000 µg/l "Motor Fuel" and 1,590 µg/l benzene were documented in groundwater collected from well MW-1. On January 8, 1987 one 10,000-gallon UST was removed. The status of the second 10,000-gallon UST is not known. Concentrations of up to 681 TPH in soil and up to 721,000 µg/l TPH in tank pit water were documented at the time of the tank removal.

Responsible Party Identification

ABF Freight System, Inc. is a property tenant associated with the UST. ABF Freight System, Inc. is a responsible party for site because it owned an UST used for the storage of a hazardous substance (Definition 1), owned the UST immediately before the discontinuation of its use (Definition 2), and had control over the UST at a time following an unauthorized release of a hazardous substance (Definition 4).

The Arkansas Bandag Corporation is the current owner associated with the underground storage tank (UST). The Arkansas Bandag Corporation is a responsible party for the site because it owned the property where an unauthorized release has occurred (Definition 3).

ATTACHMENT B

UST Certificates of Disposal

CROSBY AND OVERTON
Environmental Managment Inc.
8430 Amelia Street • Oakland, California 94621
(415) 633-0336

February 25, 1987

Roy Weston
1001 Galaxy Way
Concord, Calif 94520

ATTN: Mr. Steve Viani

Dear Mr. Viani,

Here is the Certificate of Scrap for the 10,000 gallon diesel storage tank that was located at 4575 Tidewater, Oakland, California.

If you should have any other questions, please feel free to call me at (415) 633-0336.

Sincerely,

CROSBY & OVERTON, E.M.I.

Kevin M. Postl
Field Supervisor

KMP/mer

Enclosure

Reference for Tank/Job No. 4499 as shown on following page

H & H
SHIP SERVICE COMPANY
W. J. HARRIS

220 CHINA BASIN, P.O. BOX 77363 · SAN FRANCISCO, CA 94107 · DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

28 February 1987

H & H Ship Service Company hereby certifies to CROSBY & OVERTON that:

1. The storage tank(s) removed from the A.B.F. TRUCKING facility at 4575 Tidewater, Oakland, California
(address)
were transported to H & H Ship Service Company, 220 China Basin Street, San Francisco, California 94107.

2. The following tank(s), H & H Job Number: 4499, have been steam cleaned, cut with approximately 2' x 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: LEVIN METALS CORPORATION

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,

CLEVELAND VALREY
Q.A. & Safety Coordinator

H & H SHIP SERVICE COMPANY

TERMS: CASH

DATE August 24, 1987

OUR INVOICE NO. 887-157
OUR JOB NO. 5804
CUSTOMER'S REFERENCES
PO NO.
JOB NO.

W. J. HARRIS

References for Tank/Job No. 5804 as shown on following page

ABF FREIGHT SYSTEM, INC.
4575 Tidewater
Oakland, California 94601

Furnished necessary labor, material and equipment to clean and dispose of one (1) 10,000 Gals. Tank removed from Oakland as directed.
Work started 7/27/87, H & H Yard, San Francisco, California.
Work completed 7/30/87, Richmond, California.

Transportation (2 Hours @65.00)	$ 130.00
Disposal of Tank	1,000.00
Toll	6.00
TOTAL INVOICE	$1,136.00

PAID

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: (415) 543-4835

H & H SHIP SERVICE COMPANY
W. J. HARRIS
220 CHINA BASIN, P.O. BOX 77363 · SAN FRANCISCO, CA 94107 · DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

30 JULY 1987

H & H Ship Service Company hereby certifies to ABF FREIGHT SYSTEM, INC. that:

1. The storage tank(s) removed from the ABF FREIGHT SYSTEM, INC facility at 4575 TIDEWATER OAKLAND, CALIFORNIA (address) were transported to H & H Ship Service Company, 220 China Basin Street, San Francisco, California 94107.

2. The following tank(s), H & H Job Number: 5804, have been steam cleaned, cut with approximately 2' x 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: LEVIN METALS CORPORATION, RICHMOND, CALIFORNIA

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,

CLEVELAND VALREY
Q.A. & Safety Coordinator

ATTACHMENT C

Field Procedures

FIELD PROCEDURES

Well Development

Well development is performed by alternately surging and bailing or pumping the well to remove sand and silt and to reduce turbidity. Typically a minimum of 10 casing volumes of water are removed during well development, while monitoring temperature, pH, and electrical conductivity of removed water. The water is placed into a 55-gallon drum for storage and disposal.

Groundwater Sampling

Groundwater Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

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 equipped with a flow-through cell. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electrical conductivity of the purge water are monitored. Dissolved oxygen is also measured in the flow-through cell. The well is considered to be sufficiently purged when the three 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.

Groundwater samples are placed into laboratory-supplied containers appropriate for the analyses to be performed. For analysis for volatile organic compounds, samples are placed into 40-milliliter vials. 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. 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.

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.

Well Installation

The boring for a small-diameter well is advanced using truck-mounted direct-push drilling equipment, with the boring advanced as described above for the soil borings. Drilling and sampling equipment is steam cleaned or cleaned with tri-sodium phosphate prior to and between uses.

During drilling, soils from each sample liner are examined. The onsite Trinity geologist logs the soils including a physical description of observed soil characteristics (i.e. moisture content, consistency, obvious odor, color, PID readings, etc.), drilling difficulty, and soil type as a function of depth in accordance with the USCS. Additional descriptive information denoted on the logs includes groundwater and well installation data.

Screening with the PID is performed at approximately two-foot intervals as described above. 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, labeled, and then placed in an ice-filled cooler for transport to the laboratory under chain-of-custody documentation.

Following the completion of the borehole, the boring is converted to a groundwater monitoring well constructed to monitor discrete water bearing strata. Well construction information is denoted on the boring logs. Groundwater monitoring well construction materials consists of 3/4-inch diameter flush-threaded Schedule 40 PVC casing and 0.020-inch factory-slotted screen with appropriate graded sand pack pre-installed across the screen interval, a bentonite and cement grout surface seal, a locking cap, and protective traffic-rated vault box.

Sub-Slab Vapor Probe Installation and Sampling

The installation procedure is consistent with that described by USEPA[2]. 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 "Interim Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" dated December 15, 2004 and revised February 7, 2005. 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

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[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*.

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 C-1.

Sampling Set-up

The sub-slab probes are allowed to equilibrate for a minimum of 72 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 sub-slab 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 C-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 atmosphere beneath the shroud to document the helium-enriched environment until the sampling process is complete.

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.

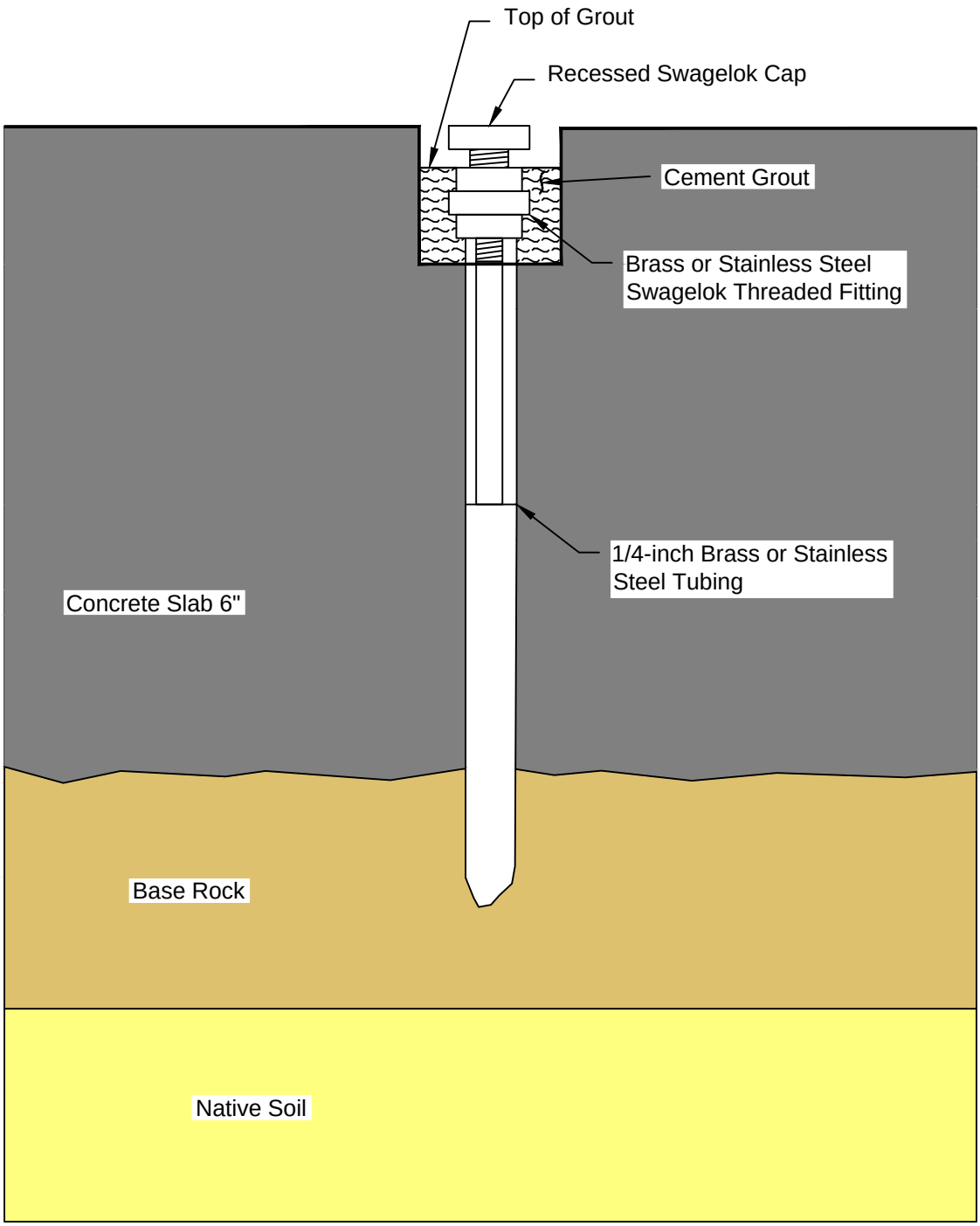
Sampling

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.



REF. 154_001\154.003.001 fig C-1.dwg

PREPARED BY
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Environmental Consultants
500 Chestnut Street, Suite 225
Santa Cruz, California 95060
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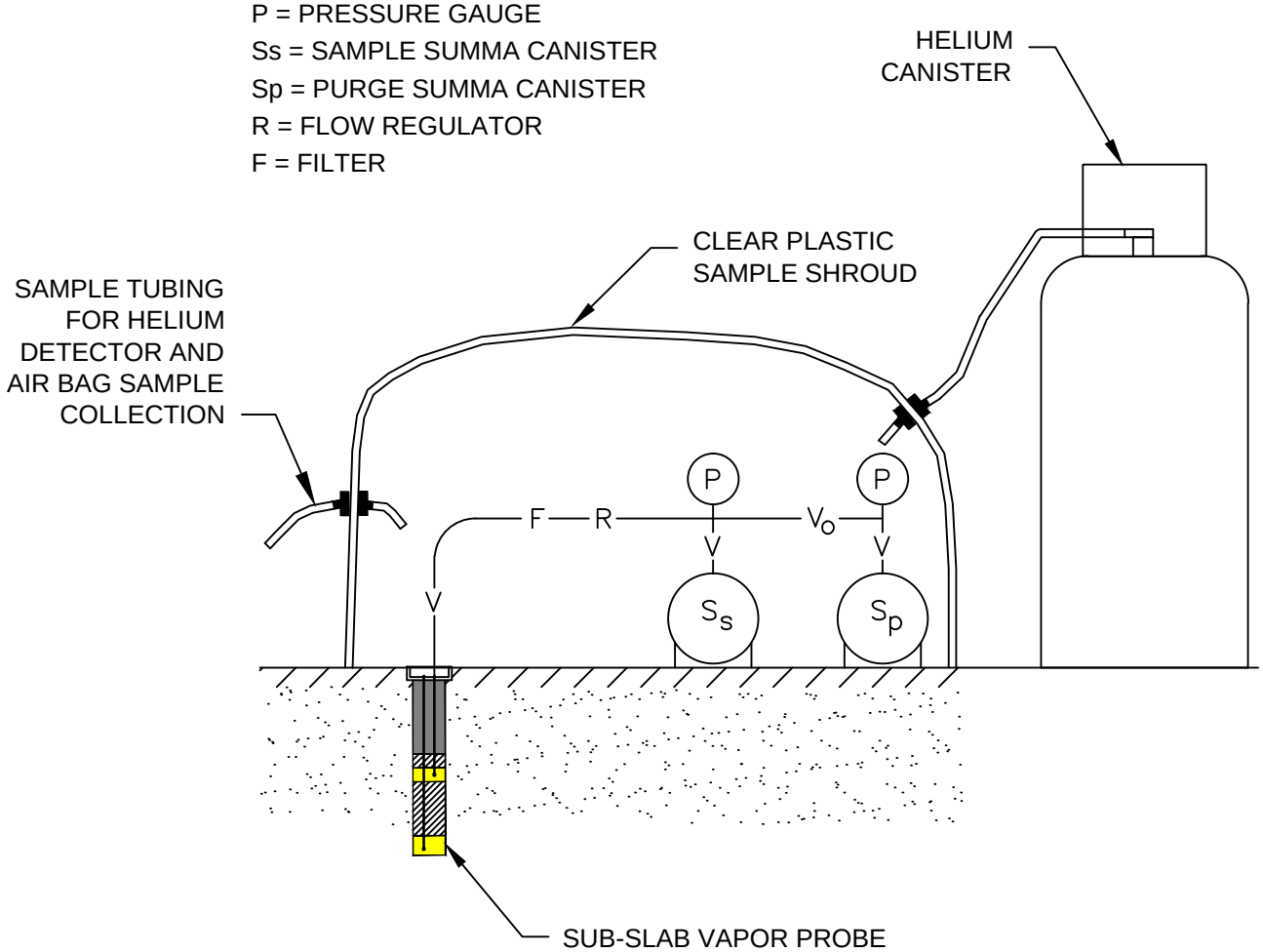
SUB-SLAB VAPOR PROBE SCHEMATIC

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.003.001

FIGURE:
C-1

V = VALVE
Vo = OPTIONAL VALVE
P = PRESSURE GAUGE
Ss = SAMPLE SUMMA CANISTER
Sp = PURGE SUMMA CANISTER
R = FLOW REGULATOR
F = FILTER



* USE SWAGELOK FITTINGS ON ALL CONNECTIONS

** ASSEMBLE SAMPLE APPARATUS AND LEAK TEST PRIOR TO MOBILIZING TO FIELD

REF. 154_001\154.003.001 fig C-2.dwg

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SUB-SLAB VAPOR SAMPLING EQUIPMENT SCHEMATIC
ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT: 154.003.001

FIGURE: C-2

ATTACHMENT D

Field Data Sheets

Field Data Sheet

Depth to Water Data Form

TRINITY
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500 Chestnut Street, Suite 225
Santa Cruz, CA 95060
t 831 426 5600
f 831 426 5602

Site Information

Project Address: 4575 Tidewater Ave Date: 10/13/11 Project Number: 154.002.002

City: Oakland County: Alameda State: CA

Water Level Equipment

☒ Electronic Indicator

☐ Oil Water Interface Probe

☐ Other (Specify)

Measured by: Name: Eric Choi

Notes:

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-2	1st	1000	14.10	3.71'	3.71'			
MW-1	2nd	1005	18.00	4.34'	4.34'			

Signature [signature]

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Environmental Consultants
500 Chestnut Street, Suite 225
Santa Cruz, California 95060

Well Development Log

Site: ABF Freight, Inc. 4575 Tidewater Ave, Oakland

Sampler: Eric Choi

Date: 10/13/11 **Project #:** 154.002.002

Well ID: MW-1

Well Diameter	TD BTOC	DTW BTOC	Purge Equipment	Sample Equipment
4"	18.00	4.34	12 VDC PUMP	None Collected

Purge Volume Calculation

TD 18.00 - DTW 4.34 = 13.66 x Gallons per Linear Foot 0.65 = 8.879 x Number of Casings 10 = ~89 gallons

Time (24 hour)	1018	1027	1049	1113	1147	1200	
Gallons Purged	9	20	40	60	80	90	
DO (mg/L)	1.02	0.50	1.76	1.63	1.91	1.90	
pH	6.83	6.82	6.80	6.82	6.82	6.82	
Temperature (°C)	23.8	24.0	23.2	23.6	23.8	23.8	
Conductivity (umhos/cm²)	4550	3404	4820	4380	4516	4580	
ORP (mV)	-149	-151	-99	-73	-72	-93	
Visual Description	Gray/black	clear	→	→	→	→	
Other (NTU's)	>1,000	51.56	81.90	30.72	10.54	6.13	
Other							

Sample ID	Time	Quantity	Volume	Type	Preservative	Analysis
None Collected						

Notes:
osurged using surge block prior to pumping, and also checked for product w/ bailer, none found, but slight petroleum odor and sheen present, and also water very foamy after surging. H2O cleared up after ~ pumping 10 gallons; surge again after 45gals

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

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Well Development Log

Site: ABF Freight, Inc. 4575 Tidewater Ave, Oakland

Sampler: Eric Choi

Date: 10/13/11 **Project #:** 154.002.002

Well ID: MW-2

Well Diameter	TD BTOC	DTW BTOC	Purge Equipment	Sample Equipment
4"	14.10	3.71	12 VDC PUMP	None Collected

Purge Volume Calculation

TD 14.10 − DTW 3.71 = ~~3.5~~ 10.39 x Gallons per Linear Foot 0.65 = 6.75 x Number of Casings 10 ≈ 67 gallons

Time (24 hour)	1214	1223	~~1303~~ 1313				
Gallons Purged	7	20	30				
DO (mg/L)	1.40	0.52	2.43				
pH	6.81	6.82	6.81				
Temperature (°C)	25.0	23.6	23.6				
Conductivity (umhos/cm²)	3718	8099	4158				
ORP (mV)	-113	-152	-93				
Visual Description	gray	clear	→				
Other (NTU's)	193.7	63.2	40.11				
Other							

Sample ID	Time	Quantity	Volume	Type	Preservative	Analysis
None Collected						

Notes:
checked for prod. w/ bailer prior to dev. surged well prior to purging, 1st ~3 gallons black-gray in color, slight odor, well dry after ~20 gallons, let recharge, surged and restart purging @ 1251 pump approx. 5 gallons. then went dry, let recharge again, restart pump @ 1310 only produced ~5 gallons, slow to recharge, will sample 1st on day of monitoring.

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

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TRINITY WELLHEAD INSPECTION FORM

Site Address: ABF Freight, Inc. 4575 Tidewater Ave, Oakland, CA Date: 10/17/11

Project No.: 154.002.003 Technician: EC 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
MW-1	Yes	NO	NO	NO	NO	NO	Yes	Yes	See notes
MW-2	Yes	NO	NO	NO	NO	NO	Yes	Yes	11

*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: Both wells are housed in Christy H10 boxes w/ unsecured lids, and also both wells have slip cap lids, unsecured. Checked for product in both wells prior to gauging - No prod. found.

Field Data Sheet

Depth to Water Data Form

Site Information

4575 Tidewater Ave — Project Address
10/17/11 — Date
154.002.03 — Project Number
Oakland — City
Alameda — County
CA — State

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Santa Cruz, CA 95060
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Water Level Equipment

☒ Electronic Indicator
☐ Oil Water Interface Probe
☐ Other (Specify)

Measured by: ERIC CHEI — Name

Notes:

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-2	1st	1000	14.10	3.87	3.87			
MW-1	2nd	1004	18.00	4.56	4.56			

Signature

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source group, inc.
Environmental Consultants

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Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

Trinity SPH or Purge Water Drum Log

Site: ABF Freight, Inc.
4575 Tidewater Ave.
Oakland, CA

Status of Drum(s) Upon Arrival

Date	10/13/11	10/17/11						
Number of drum(s) Empty:	~~4~~ 3	3						
Number of drum(s) 1/4 full:		1						
Number of drum(s) 1/2 full:								
Number of drum(s) 3/4 full:								
Number of drum(s) full:								
Total drum(s) on site:	3	2						
Are drum(s) properly labeled?	NA	PURGE						
Drum ID and Contents:	EMPTY	Yes						

Note:
If you add any SPH to an empty/partially filled drum, drum must have at least 20 gals. of purgewater or DI water.
If drum contains SPH, the drum MUST be steel AND labeld with appropriate label.
All Trinity drums MUST be labeld appropriately.

Status of Drum(s) Upon Departure

Date	10/13/11	10/17/11						
Number of drum(s) Empty:	~~0~~	~~0~~						
Number of drum(s) 1/4 full:	1	1						
Number of drum(s) 1/2 full:								
Number of drum(s) 3/4 full:								
Number of drum(s) full:	2	2						
Total drum(s) on site:	3	3						
Are drum(s) properly labeled?	Yes	Yes						
Drum ID and Contents:	Purge	Purge						

Location of Drum(s)

Describe location of drum(s): Near defunct. diesel fuel tank

Final Status

Site this event								
Date of inspection:	10/13/11	10/17/11						
Drum(s) labeled properly:	3 Yes	Yes						
Logged by Trinity Field Tech:	Yes	Yes						
Office reviewed:								

TEST EQUIPMENT CALIBRATION LOG

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Santa Cruz, California 95060

Site: ABF Freight, Inc.			Date:		Project No.:		
Equipment Name	**Equipment Number**	**Date/Time of Test**	**Standards Used**	**Equipment Reading**	**Calibrated to : or within 10%:**	**Temp.**	**Initials**
Ultrameter II		10/13/11 @ 1010	4,7,10	4,00, 7.01 4,99	Yes	21.7	EC
Ultrameter II		10/17/11 @	4,7,10	4,01,7.02 9,99	Yes	21,9	EC
Ultrameter II							
Ultrameter II							
Ultrameter II							
Ultrameter II							

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Santa Cruz, California 95060

Well Purge and Sampling Log

Site: ABF Freight, Inc. 4575 Tidewater Ave Oakland

Sampler: Eric Choi

Date: 10/17/11 **Project #:** 154.002.003

Well ID: MW-1

Well Diameter	TD BTOC	DTW BTOC	Purge Equipment	Sample Equipment
4"	18.00	4.56	12 VDCPUMP	Disposable Bailer

Purge Volume Calculation

TD 18.00 DTW 4.56 = 13.44 x Gallons per Linear Foot 0.65 = 8.73 x Number of Casings 3 = ~26 gallons

Time (24 hour)	1140	1143	1148	1153	1156	1158	
Gallons Purged	6	10	15	21	24	26	
DO (mg/L)	1.40	0.77	0.39	0.31	0.27	0.27	
pH	6.83	6.83	6.84	6.84	6.84	6.84	
Temperature (°C)	23.6	24.2	24.1	23.9	23.9	23.9	
Conductivity (umhos/cm²)	4218	4139	4000	3645	3808	3810	
ORP (mV)	-158	-169	-173	-170	-160	-161	
Visual Description (NTUs)	13.13	10.75	3.07	3.95	12.67	10.07	
Other							
Other							

Sample ID	Time	Quantity	Volume	Type	Preservative	Analysis
	1208	13 total	1L	clear	HCl	
			2x1000	Amber	None	
		10	40ml	VOA	HCl	

Notes:

os light petroleum odor and sheen present

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

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Santa Cruz, California 95060

Well Purge and Sampling Log

Site: ABF Freight, Inc. 4575 Tidewater Ave Oakland

Sampler: Eric Choi

Date: 10/17/11 **Project #:** 154.002.003

Well ID: MW-2

Well Diameter	TD BTOC	DTW BTOC	Purge Equipment	Sample Equipment
4"	314.10	3.87	12 VDCPUMP	Disposable Bailer

Purge Volume Calculation

TD 314.10 DTW 3.87 = 10.23 x Gallons per Linear Foot 0.65 = 6.65 x Number of Casings 3 = ~20 gallons

Time (24 hour)	1026	1031	1036	1039	1110	1113	
Gallons Purged	3	7	12	15	17	20	
DO (mg/L)	3.22	1.07	0.59	0.87	4.28	3.90	
pH	6.84	6.82	6.81	6.84	6.85	6.84	
Temperature (°C)	23.7	24.8	24.0	22.6	23.4	24.0	
Conductivity (umhos/cm²)	2870	1819	2731	7810	2581	2508	
ORP (mV)	-119	-141	-130	-135	-73	-52	
Visual Description (NTUs)	4.09	8.92	2.88	3.66	9.10	5.25	
Other							
Other							

Sample ID	Time	Quantity	Volume	Type	Preservative	Analysis
MW-2	1120	13 total	1L	~~Amber~~	HCl	
			2x1000	Amber	None	
		10	40ml	VOA	HCl	

Notes:

o well dry after pumping ~16 gallons @ 1041, let recharge ; restart pump @ 1109

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 - Santa Cruz, CA

500 Chestnut Street. Ste. 225
Santa Cruz,CA 95060

Billing information:

Accounts Payable
500 Chestnut Street, Ste. 225

Santa Cruz,CA 95060

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

ESC LABORATORIES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: **Eric Choi**

Email: **labstrinity@gmail.com; ejc@**

Project Description: **ABS-Freight Systems Inc.**

City/State Collected: oakland, CA

Phone: **(831) 426-5600**
FAX:

Client Project #: **154.001.001** 002-003

Lab Project #: **TRINITYSCCA-154001**

Collected by (print):

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

(lab use only)
Acctnum: **TRINITYSCCA**
Template/Prelogin: **T74609/P371464**
Cooler #:
Shipped Via: **FedEX Saver**

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	DROCAERLVI 40mlAmb-HCl-BT	DROCAERLVI- Silica G 40mlAmb-HCl-BT	GRO 40mlAmb HCl	SV8270PAHSIM 100ml Amb-NoPres	TPHOGHEX 1L-Clr-Add HCl	V8260LL 40mlAmb-HCl			Remarks/Contaminant	Sample # (lab only)
MW-2		GW		10/12/11	1120	11	X		X	X	X	X				
MW-2		GW			1120	2		X								
MW-1		GW			1205	11	X		X	X	X	X				
MW-1		GW			1205	2		X								

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

ATTACHMENT E

Certified Analytical Reports, Chain-of-Custody Documentation, and GeoTracker Upload Confirmations

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

Tuesday October 25, 2011

Report Number: L542070
Samples Received: 10/18/11
Client Project: 154.002.003

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: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Est. 1970

REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-01

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Site ID :

Sample ID : MW-2

Project # : 154.002.003

Collected By : Eric Choi
Collection Date : 10/17/11 11:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPH - Oil & Grease	1700	1300	5000	ug/l	J	1664A	10/21/11	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	10/21/11	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	96.1			% Rec.		8015D/G	10/21/11	1
Volatile Organics								
Acetone	11.	2.5	25.	ug/l	J	8260B	10/20/11	1
Acrylonitrile	U	0.87	2.5	ug/l		8260B	10/20/11	1
Benzene	U	0.10	0.50	ug/l		8260B	10/20/11	1
Bromobenzene	U	0.056	0.50	ug/l		8260B	10/20/11	1
Bromodichloromethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Bromochloromethane	U	0.10	0.50	ug/l		8260B	10/20/11	1
Bromoform	U	0.061	0.50	ug/l		8260B	10/20/11	1
Bromomethane	U	0.16	0.50	ug/l		8260B	10/20/11	1
n-Butylbenzene	U	0.10	0.50	ug/l		8260B	10/20/11	1
sec-Butylbenzene	U	0.077	0.50	ug/l		8260B	10/20/11	1
tert-Butylbenzene	U	0.097	0.50	ug/l		8260B	10/20/11	1
Carbon disulfide	U	0.084	0.50	ug/l		8260B	10/20/11	1
Carbon tetrachloride	U	0.14	0.50	ug/l		8260B	10/20/11	1
Chlorobenzene	U	0.063	0.50	ug/l		8260B	10/20/11	1
Chlorodibromomethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Chloroethane	U	0.14	0.50	ug/l		8260B	10/20/11	1
2-Chloroethyl vinyl ether	U	0.28	2.5	ug/l	J3	8260B	10/20/11	1
Chloroform	U	0.091	0.50	ug/l		8260B	10/20/11	1
Chloromethane	U	0.14	0.50	ug/l		8260B	10/20/11	1
2-Chlorotoluene	U	0.094	0.50	ug/l		8260B	10/20/11	1
4-Chlorotoluene	U	0.080	0.50	ug/l		8260B	10/20/11	1
1,2-Dibromo-3-Chloropropane	U	0.064	1.0	ug/l		8260B	10/20/11	1
1,2-Dibromoethane	U	0.18	0.50	ug/l		8260B	10/20/11	1
Dibromomethane	U	0.10	0.50	ug/l		8260B	10/20/11	1
1,2-Dichlorobenzene	U	0.087	0.50	ug/l		8260B	10/20/11	1
1,3-Dichlorobenzene	U	0.069	0.50	ug/l		8260B	10/20/11	1
1,4-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	10/20/11	1
Dichlorodifluoromethane	U	0.096	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	10/20/11	1
1,2-Dichloroethane	U	0.056	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloroethene	U	0.15	0.50	ug/l		8260B	10/21/11	1
cis-1,2-Dichloroethene	U	0.097	0.50	ug/l		8260B	10/20/11	1
trans-1,2-Dichloroethene	U	0.16	0.50	ug/l		8260B	10/20/11	1
1,2-Dichloropropane	U	0.079	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloropropene	U	0.15	0.50	ug/l		8260B	10/20/11	1
1,3-Dichloropropane	U	0.067	0.50	ug/l		8260B	10/20/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-01

Site ID :

Project # : 154.002.003

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Sample ID : MW-2

Collected By : Eric Choi
Collection Date : 10/17/11 11:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
cis-1,3-Dichloropropene	U	0.081	0.50	ug/l		8260B	10/20/11	1
trans-1,3-Dichloropropene	U	0.095	0.50	ug/l		8260B	10/20/11	1
trans-1,4-Dichloro-2-butene	U	0.98	5.0	ug/l		8260B	10/20/11	1
2,2-Dichloropropane	U	0.15	0.50	ug/l		8260B	10/20/11	1
Di-isopropyl ether	U	0.050	0.50	ug/l		8260B	10/20/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	10/20/11	1
Hexachloro-1,3-butadiene	U	0.12	0.50	ug/l		8260B	10/20/11	1
2-Hexanone	U	0.61	2.5	ug/l		8260B	10/20/11	1
n-Hexane	U	0.59	1.0	ug/l		8260B	10/20/11	1
Iodomethane	U	0.52	2.5	ug/l		8260B	10/20/11	1
Isopropylbenzene	U	0.10	0.50	ug/l		8260B	10/20/11	1
p-Isopropyltoluene	U	0.078	0.50	ug/l		8260B	10/20/11	1
2-Butanone (MEK)	U	0.81	2.5	ug/l		8260B	10/20/11	1
Methylene Chloride	U	0.11	2.5	ug/l		8260B	10/20/11	1
4-Methyl-2-pentanone (MIBK)	U	0.93	2.5	ug/l		8260B	10/20/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	10/20/11	1
Naphthalene	1.0	0.12	0.50	ug/l		8260B	10/20/11	1
n-Propylbenzene	U	0.092	0.50	ug/l		8260B	10/20/11	1
Styrene	U	0.099	0.50	ug/l	J4	8260B	10/20/11	1
1,1,1,2-Tetrachloroethane	U	0.082	0.50	ug/l		8260B	10/20/11	1
1,1,2,2-Tetrachloroethane	U	0.066	0.50	ug/l		8260B	10/20/11	1
1,1,2-Trichlorotrifluoroethane	U	0.13	0.50	ug/l		8260B	10/20/11	1
Tetrachloroethene	U	0.17	0.50	ug/l		8260B	10/20/11	1
Toluene	U	0.15	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trichlorobenzene	U	0.13	0.50	ug/l		8260B	10/20/11	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	10/20/11	1
1,1,1-Trichloroethane	U	0.13	0.50	ug/l		8260B	10/20/11	1
1,1,2-Trichloroethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Trichloroethene	U	0.12	0.50	ug/l		8260B	10/20/11	1
Trichlorofluoromethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trichloropropane	U	0.52	2.5	ug/l		8260B	10/20/11	1
1,2,4-Trimethylbenzene	U	0.058	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trimethylbenzene	U	0.85	0.50	ug/l		8260B	10/20/11	1
1,3,5-Trimethylbenzene	U	0.090	0.50	ug/l		8260B	10/20/11	1
Vinyl acetate	U	0.46	2.5	ug/l		8260B	10/20/11	1
Vinyl chloride	U	0.23	0.50	ug/l		8260B	10/20/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	10/20/11	1
Surrogate Recovery								
Toluene-d8	97.7			% Rec.		8260B	10/20/11	1
Dibromofluoromethane	89.5			% Rec.		8260B	10/20/11	1
4-Bromofluorobenzene	103.			% Rec.		8260B	10/20/11	1

Diesel Range Organics California

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REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-01

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Site ID :

Sample ID : MW-2

Project # : 154.002.003

Collected By : Eric Choi
Collection Date : 10/17/11 11:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
C10-C22 Hydrocarbons	490	33.	100	ug/l	Y1	3511/80	10/25/11	1
C22-C32 Hydrocarbons	240	33.	100	ug/l	Y4	3511/80	10/25/11	1
C32-C40 Hydrocarbons	64.	33.	100	ug/l	J	3511/80	10/25/11	1
Surrogate Recovery								
o-Terphenyl	114.			% Rec.		3511/80	10/25/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.013	0.050	ug/l		8270C-S	10/21/11	1
Acenaphthene	0.097	0.0082	0.050	ug/l		8270C-S	10/21/11	1
Acenaphthylene	U	0.011	0.050	ug/l		8270C-S	10/21/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	10/21/11	1
Benzo(a)pyrene	U	0.016	0.050	ug/l		8270C-S	10/21/11	1
Benzo(b)fluoranthene	U	0.019	0.050	ug/l		8270C-S	10/21/11	1
Benzo(g,h,i)perylene	U	0.016	0.050	ug/l		8270C-S	10/21/11	1
Benzo(k)fluoranthene	U	0.026	0.050	ug/l		8270C-S	10/21/11	1
Chrysene	U	0.014	0.050	ug/l		8270C-S	10/21/11	1
Dibenz(a,h)anthracene	U	0.0045	0.050	ug/l		8270C-S	10/21/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	10/21/11	1
Fluorene	0.022	0.0090	0.050	ug/l	J	8270C-S	10/21/11	1
Indeno(1,2,3-cd)pyrene	U	0.0074	0.050	ug/l		8270C-S	10/21/11	1
Naphthalene	0.57	0.012	0.25	ug/l		8270C-S	10/21/11	1
Phenanthrene	U	0.018	0.050	ug/l		8270C-S	10/21/11	1
Pyrene	0.021	0.016	0.050	ug/l	J	8270C-S	10/21/11	1
1-Methylnaphthalene	0.096	0.019	0.25	ug/l	J	8270C-S	10/21/11	1
2-Methylnaphthalene	0.088	0.016	0.25	ug/l	J	8270C-S	10/21/11	1
2-Chloronaphthalene	U	0.016	0.25	ug/l		8270C-S	10/21/11	1
Surrogate Recovery								
Nitrobenzene-d5	64.5			% Rec.		8270C-S	10/21/11	1
2-Fluorobiphenyl	65.0			% Rec.		8270C-S	10/21/11	1
p-Terphenyl-d14	56.7			% Rec.		8270C-S	10/21/11	1

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REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-02

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Site ID :

Sample ID : MW-2 - SGCU

Project # : 154.002.003

Collected By : Eric Choi
Collection Date : 10/17/11 11:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Diesel Range Organics California								
C10-C22 Hydrocarbons	380	33.	100	ug/l	Y1	3511/80	10/25/11	1
C22-C32 Hydrocarbons	220	33.	100	ug/l	Y4	3511/80	10/25/11	1
C32-C40 Hydrocarbons	69.	33.	100	ug/l	J	3511/80	10/25/11	1
Surrogate Recovery								
o-Terphenyl	107.			% Rec.		3511/80	10/25/11	1

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REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-03

Site ID :

Project # : 154.002.003

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Sample ID : MW-1

Collected By : Eric Choi
Collection Date : 10/17/11 12:08

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPH - Oil & Grease	U	1300	5000	ug/l		1664A	10/21/11	1
TPH (GC/FID) Low Fraction	660	40.	100	ug/l		8015D/G	10/21/11	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	96.1			% Rec.		8015D/G	10/21/11	1
Volatile Organics								
Acetone	8.4	2.5	25.	ug/l	J	8260B	10/20/11	1
Acrylonitrile	U	0.87	2.5	ug/l		8260B	10/20/11	1
Benzene	11.	0.10	0.50	ug/l		8260B	10/20/11	1
Bromobenzene	U	0.056	0.50	ug/l		8260B	10/20/11	1
Bromodichloromethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Bromochloromethane	U	0.10	0.50	ug/l		8260B	10/20/11	1
Bromoform	U	0.061	0.50	ug/l		8260B	10/20/11	1
Bromomethane	U	0.16	0.50	ug/l		8260B	10/20/11	1
n-Butylbenzene	2.6	0.10	0.50	ug/l		8260B	10/20/11	1
sec-Butylbenzene	1.9	0.077	0.50	ug/l		8260B	10/20/11	1
tert-Butylbenzene	14.	0.097	0.50	ug/l		8260B	10/20/11	1
Carbon disulfide	U	0.084	0.50	ug/l		8260B	10/20/11	1
Carbon tetrachloride	U	0.14	0.50	ug/l		8260B	10/20/11	1
Chlorobenzene	U	0.063	0.50	ug/l		8260B	10/20/11	1
Chlorodibromomethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Chloroethane	U	0.14	0.50	ug/l		8260B	10/20/11	1
2-Chloroethyl vinyl ether	U	0.28	2.5	ug/l		8260B	10/20/11	1
Chloroform	U	0.091	0.50	ug/l		8260B	10/20/11	1
Chloromethane	U	0.14	0.50	ug/l		8260B	10/20/11	1
2-Chlorotoluene	U	0.094	0.50	ug/l		8260B	10/20/11	1
4-Chlorotoluene	U	0.080	0.50	ug/l		8260B	10/20/11	1
1,2-Dibromo-3-Chloropropane	U	0.064	1.0	ug/l		8260B	10/20/11	1
1,2-Dibromoethane	U	0.18	0.50	ug/l		8260B	10/20/11	1
Dibromomethane	U	0.10	0.50	ug/l		8260B	10/20/11	1
1,2-Dichlorobenzene	U	0.087	0.50	ug/l		8260B	10/20/11	1
1,3-Dichlorobenzene	U	0.069	0.50	ug/l		8260B	10/20/11	1
1,4-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	10/20/11	1
Dichlorodifluoromethane	U	0.096	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	10/20/11	1
1,2-Dichloroethane	U	0.056	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloroethene	U	0.15	0.50	ug/l		8260B	10/21/11	1
cis-1,2-Dichloroethene	U	0.097	0.50	ug/l		8260B	10/20/11	1
trans-1,2-Dichloroethene	U	0.16	0.50	ug/l		8260B	10/20/11	1
1,2-Dichloropropane	U	0.079	0.50	ug/l		8260B	10/20/11	1
1,1-Dichloropropene	U	0.15	0.50	ug/l		8260B	10/20/11	1
1,3-Dichloropropane	U	0.067	0.50	ug/l		8260B	10/20/11	1

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REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-03

Site ID :

Project # : 154.002.003

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Sample ID : MW-1

Collected By : Eric Choi
Collection Date : 10/17/11 12:08

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
cis-1,3-Dichloropropene	U	0.081	0.50	ug/l		8260B	10/20/11	1
trans-1,3-Dichloropropene	U	0.095	0.50	ug/l		8260B	10/20/11	1
trans-1,4-Dichloro-2-butene	U	0.98	5.0	ug/l		8260B	10/20/11	1
2,2-Dichloropropane	U	0.15	0.50	ug/l		8260B	10/20/11	1
Di-isopropyl ether	U	0.050	0.50	ug/l		8260B	10/20/11	1
Ethylbenzene	0.93	0.11	0.50	ug/l		8260B	10/20/11	1
Hexachloro-1,3-butadiene	U	0.12	0.50	ug/l		8260B	10/20/11	1
2-Hexanone	U	0.61	2.5	ug/l		8260B	10/20/11	1
n-Hexane	7.9	0.59	1.0	ug/l		8260B	10/20/11	1
Iodomethane	U	0.52	2.5	ug/l		8260B	10/20/11	1
Isopropylbenzene	11.	0.10	0.50	ug/l		8260B	10/20/11	1
p-Isopropyltoluene	U	0.078	0.50	ug/l		8260B	10/20/11	1
2-Butanone (MEK)	U	0.81	2.5	ug/l		8260B	10/20/11	1
Methylene Chloride	U	0.11	2.5	ug/l		8260B	10/20/11	1
4-Methyl-2-pentanone (MIBK)	U	0.93	2.5	ug/l		8260B	10/20/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	10/20/11	1
Naphthalene	56.	0.12	0.50	ug/l		8260B	10/20/11	1
n-Propylbenzene	21.	0.092	0.50	ug/l		8260B	10/20/11	1
Styrene	U	0.099	0.50	ug/l	J4	8260B	10/20/11	1
1,1,1,2-Tetrachloroethane	U	0.082	0.50	ug/l		8260B	10/20/11	1
1,1,2,2-Tetrachloroethane	U	0.066	0.50	ug/l		8260B	10/20/11	1
1,1,2-Trichlorotrifluoroethane	U	0.13	0.50	ug/l		8260B	10/20/11	1
Tetrachloroethene	U	0.17	0.50	ug/l		8260B	10/20/11	1
Toluene	1.1	0.15	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trichlorobenzene	U	0.13	0.50	ug/l		8260B	10/20/11	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	10/20/11	1
1,1,1-Trichloroethane	U	0.13	0.50	ug/l		8260B	10/20/11	1
1,1,2-Trichloroethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
Trichloroethene	U	0.12	0.50	ug/l		8260B	10/20/11	1
Trichlorofluoromethane	U	0.12	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trichloropropane	U	0.52	2.5	ug/l		8260B	10/20/11	1
1,2,4-Trimethylbenzene	U	0.058	0.50	ug/l		8260B	10/20/11	1
1,2,3-Trimethylbenzene	1.2	0.85	0.50	ug/l		8260B	10/20/11	1
1,3,5-Trimethylbenzene	U	0.090	0.50	ug/l		8260B	10/20/11	1
Vinyl acetate	U	0.46	2.5	ug/l		8260B	10/20/11	1
Vinyl chloride	U	0.23	0.50	ug/l		8260B	10/20/11	1
Xylenes, Total	3.3	0.50	1.5	ug/l		8260B	10/20/11	1
Surrogate Recovery								
Toluene-d8	98.1			% Rec.		8260B	10/20/11	1
Dibromofluoromethane	89.3			% Rec.		8260B	10/20/11	1
4-Bromofluorobenzene	101.			% Rec.		8260B	10/20/11	1

Diesel Range Organics California

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-03

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Site ID :

Sample ID : MW-1

Project # : 154.002.003

Collected By : Eric Choi
Collection Date : 10/17/11 12:08

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
C10-C22 Hydrocarbons	5900	160	500	ug/l	Y1Y5	3511/80	10/25/11	5
C22-C32 Hydrocarbons	780	33.	100	ug/l	Y4	3511/80	10/25/11	1
C32-C40 Hydrocarbons	110	33.	100	ug/l	Y4	3511/80	10/25/11	1
Surrogate Recovery								
o-Terphenyl	110.			% Rec.		3511/80	10/25/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.056	0.013	0.050	ug/l		8270C-S	10/21/11	1
Acenaphthene	0.69	0.0082	0.050	ug/l		8270C-S	10/21/11	1
Acenaphthylene	0.20	0.011	0.050	ug/l		8270C-S	10/21/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	10/21/11	1
Benzo(a)pyrene	U	0.016	0.050	ug/l		8270C-S	10/21/11	1
Benzo(b)fluoranthene	U	0.019	0.050	ug/l		8270C-S	10/21/11	1
Benzo(g,h,i)perylene	U	0.016	0.050	ug/l		8270C-S	10/21/11	1
Benzo(k)fluoranthene	U	0.026	0.050	ug/l		8270C-S	10/21/11	1
Chrysene	U	0.014	0.050	ug/l		8270C-S	10/21/11	1
Dibenz(a,h)anthracene	U	0.0045	0.050	ug/l		8270C-S	10/21/11	1
Fluoranthene	0.049	0.016	0.050	ug/l	J	8270C-S	10/21/11	1
Fluorene	1.5	0.0090	0.050	ug/l		8270C-S	10/21/11	1
Indeno(1,2,3-cd)pyrene	U	0.0074	0.050	ug/l		8270C-S	10/21/11	1
Naphthalene	31.	0.012	0.25	ug/l	E	8270C-S	10/21/11	1
Phenanthrene	0.29	0.018	0.050	ug/l		8270C-S	10/21/11	1
Pyrene	0.041	0.016	0.050	ug/l	J	8270C-S	10/21/11	1
1-Methylnaphthalene	13.	0.019	0.25	ug/l	E	8270C-S	10/21/11	1
2-Methylnaphthalene	13.	0.016	0.25	ug/l	E	8270C-S	10/21/11	1
2-Chloronaphthalene	U	0.016	0.25	ug/l		8270C-S	10/21/11	1
Surrogate Recovery								
Nitrobenzene-d5	56.7			% Rec.		8270C-S	10/21/11	1
2-Fluorobiphenyl	54.5			% Rec.		8270C-S	10/21/11	1
p-Terphenyl-d14	53.5			% Rec.		8270C-S	10/21/11	1

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Est. 1970

REPORT OF ANALYSIS

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

October 25, 2011

ESC Sample # : L542070-04

Date Received : October 18, 2011
Description : ABF Freight Systems Inc.

Site ID :

Sample ID : MW-1 - SGCU

Project # : 154.002.003

Collected By : Eric Choi
Collection Date : 10/17/11 12:08

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Diesel Range Organics California								
C10-C22 Hydrocarbons	4300	33.	100	ug/l	Y1Y5	3511/80	10/25/11	1
C22-C32 Hydrocarbons	220	33.	100	ug/l	Y4	3511/80	10/25/11	1
C32-C40 Hydrocarbons	33.	33.	100	ug/l	J	3511/80	10/25/11	1
Surrogate Recovery								
o-Terphenyl	106.			% Rec.		3511/80	10/25/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L542070-01	WG561675	SAMP	C10-C22 Hydrocarbons	R1908352	Y1
	WG561675	SAMP	C22-C32 Hydrocarbons	R1908352	Y4
	WG561675	SAMP	C32-C40 Hydrocarbons	R1908352	J
	WG561265	SAMP	Fluorene	R1905956	J
	WG561265	SAMP	Pyrene	R1905956	J
	WG561265	SAMP	1-Methylnaphthalene	R1905956	J
	WG561265	SAMP	2-Methylnaphthalene	R1905956	J
	WG561545	SAMP	TPH - Oil & Grease	R1903372	J
	WG561507	SAMP	Acetone	R1903234	J
	WG561507	SAMP	2-Chloroethyl vinyl ether	R1903234	J3
	WG561507	SAMP	Styrene	R1903234	J4
L542070-02	WG561688	SAMP	C10-C22 Hydrocarbons	R1908353	Y1
	WG561688	SAMP	C22-C32 Hydrocarbons	R1908353	Y4
	WG561688	SAMP	C32-C40 Hydrocarbons	R1908353	J
L542070-03	WG561675	SAMP	C10-C22 Hydrocarbons	R1908352	Y1Y5
	WG561675	SAMP	C22-C32 Hydrocarbons	R1908352	Y4
	WG561675	SAMP	C32-C40 Hydrocarbons	R1908352	Y4
	WG561265	SAMP	Fluoranthene	R1905956	J
	WG561265	SAMP	Naphthalene	R1905956	E
	WG561265	SAMP	Pyrene	R1905956	J
	WG561265	SAMP	1-Methylnaphthalene	R1905956	E
	WG561265	SAMP	2-Methylnaphthalene	R1905956	E
	WG561507	SAMP	Acetone	R1903234	J
	WG561507	SAMP	Styrene	R1903234	J4
L542070-04	WG561688	SAMP	C10-C22 Hydrocarbons	R1908353	Y1Y5
	WG561688	SAMP	C22-C32 Hydrocarbons	R1908353	Y4
	WG561688	SAMP	C32-C40 Hydrocarbons	R1908353	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Y1	This sample most closely matches the laboratory standard for Diesel
Y4	This sample most closely matches the laboratory standard for Motor Oil
Y5	This sample has responded in the Diesel range, however it does not appear to be a hydrocarbon product

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
10/25/11 at 17:16:19

TSR Signing Reports: 358

Log all samples for QC2MODCN and EDD - Geotracker EDF. Log all full-scan VOC waters as V8260LL.
All samples get MDL/RDL reporting. Accounting-pending credit application.

Sample: L542070-01 Account: TRINITYSCCA Received: 10/18/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 17:15

Sample: L542070-02 Account: TRINITYSCCA Received: 10/18/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 17:15
DROCAERLVI - Use silica gel
Sample: L542070-03 Account: TRINITYSCCA Received: 10/18/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 17:15

Sample: L542070-04 Account: TRINITYSCCA Received: 10/18/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 17:15
DROCAERLVI - Use silica gel

Trinity Source Group - Santa Cruz, CA

500 Chestnut Street, Ste. 225
Santa Cruz,CA 95060

Billing information:

Accounts Payable
500 Chestnut Street, Ste. 225

Santa Cruz,CA 95060

Report to: Eric Choi

Email: labstrinity@gmail.com; ejc@

Project Description: ~~ABS~~ ABF Freight Systems Inc.

City/State Collected: oakland, CA

Phone: (831) 426-5600
FAX:

Client Project #: 154.~~001.001~~ 002.003

Lab Project #: TRINITYSCCA-154001

Collected by (print): ERIC CHOI

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N__ Y X

Rush? (Lab MUST Be Notified)
__ Same Day 200%
__ Next Day 100%
__ Two Day 50%
__ Three Day 25%

Date Results Needed

Email? __No X Yes
FAX? __No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	DROCAERLVI 40mlAmb-HCl-BT	DROCAERLVI- Silica G 40mlAmb-HCl-BT	GRO 40mlAmb HCl	SV8270PAHSIM 100ml Amb-NoPres	TPHOGHEX 1L-Clr-Add HCl	V8260LL 40mlAmb-HCl			Remarks/Contaminant	Sample # (lab only)
MW-2		GW		10/17/11	1120	11	X		X	X	X	X				L542070-01
MW-2		GW			1120	2		X								-02
MW-1		GW			1208	11	X		X	X	X	X				03
MW-1		GW		↓	1205	2		X								04

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

G042

(lab use only)
Acctnum: TRINITYSCCA
Template/Prelogin: T74609 P371464
Cooler #: 10-11 11Gm
Shipped Via: FedEX Saver

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

5086 5316 8083

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/17/11		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 3.1°C Bottles Received: 26+1TB
Date: 10/18/11 Time: 0900 26+4

Condition: (lab use only) OK
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: NCF:

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

Submittal Type:	**GEO_REPORT**
Report Title:	**UNDERGROUNDSTORAGETANKREMOVALCERTIFICATE**
Report Type:	**Tank Removal Report / UST Sampling Report**
Report Date:	**5/8/1987**
Facility Global ID:	**T0600100018**
Facility Name:	**ABF FREIGHT SYSTEMS**
File Name:	**153-OAK - Fuel tank - ltrs_UST removal Cert.pdf**
Organization Name:	**Trinity Source Group, Inc.**
Username:	**TRINITY SOURCE GROUP**
IP Address:	**69.198.129.110**
Submittal Date/Time:	**10/4/2011 10:41:28 AM**
Confirmation Number:	3802382707

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ATTACHMENT F

Purge Water Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST

Please Print or Type (Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 02270

Page 1 of

3. Generator's Name and Mailing Address: ABF Freight, 4575 Tidewater Avenue, Oakland CA

4. Generator's Phone ( )

5. Transporter 1 Company Name: Slaby Environmental Inc.

6. US EPA ID Number: N/A

A. State Transporter's ID

B. Transporter 1 Phone: (888) 701-6600

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Instrat, 1105-C Airport Rd, Rio Vista CA 94571

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: (707) 374-3834

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Waste Water (purge water)	003	DM	165	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

I. Special Handling Instructions and Additional Information

GENERATOR

15. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name | Signature | Date: Month Day Year

TRANSPORTER

16. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Doug Manchester | Signature | Date: Month 10 Day 28 Year 11

17. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 18.

Printed/Typed Name | Signature | Date: Month Day Year

NON-HAZARDOUS WASTE

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Rev. 3/05