Timber Dell Properties, LLC 1255 Sherman St. Alameda, Ca. 94501

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Alameda County Environmental Health

Sept. 19, 2007

Regarding

Phase III Sub-Slab Vapor Investigation Report SLIC Case No. R00002584 649 Pacific Avenue Alameda, Ca. 94501

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

Timber Dell Properties, LLC

Donald W. Lindsey, member



September 20, 2007 Trinity Project No. 103.004.006

Mr. Jerry Wickham Alameda County Health Care Services Agency Environmental Health Services, Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Phase III Sub-Slab Vapor Investigation Report Searway Property (SLIC Case No. RO0002584) 649 Pacific Avenue Alameda, California

Dear Mr. Wickham:

This document, prepared by Trinity Source Group, Inc. (Trinity) on behalf of Timber Del Properties, L.L.C., c/o Mr. Donald Lindsey, presents a *Phase III Sub-Slab Vapor Investigation Report* for the referenced site (Figures 1 and 2). This report follows the July 11, 2007 *Sub-Slab Vapor Investigation Report* submitted by Trinity on behalf of Timber Del Properties. The *Sub-Slab Vapor Investigation Report* summarized Phase I and Phase II sub-slab vapor sampling, and was completed at the request of Alameda County Health Care Services Agency (ACHCSA). Based on review of the *Sub-Slab Vapor Investigation Report*, the ACHCSA issued a letter dated July 20, 2007, requesting additional (Phase III) sub-slab vapor sampling as recommended in the *Sub-Slab Vapor Investigation Report*. The ACHCSA letter is included in Attachment A to this report. This Phase III report complies with the ACHCSA letter. This report presents the site description, a summary of previous environmental investigation activities including previous site vapor investigations, the scope of work completed for this Phase III investigation, investigation results, conclusions, and recommendations for additional work.

SITE DESCRIPTION

The site is located in a two-story commercial building at the intersection of Pacific Avenue and Webster Street in Alameda, California. The site was formerly the location of a dry cleaning operation from the 1940's until at least 1979. The project site building is currently used as a Kelly-Moore Paints store. Tenants of adjacent portions of the building include the East Ocean

Seafood Restaurant at 1713 Webster Street, a martial arts school, and a tailoring/cleaners shop. The general land use in the site vicinity is commercial and residential.

Previous investigations have shown total volatile hydrocarbons as Stoddard solvent (TVHss) to be present in shallow soil and groundwater beneath a portion of the site. Elevated concentrations of total extractable hydrocarbons (TEH) have also been detected in previously collected soil and grab-groundwater samples. The detection range of the TVH and TEH analytical methods overlap for the higher boiling point compounds contained in Stoddard solvent. Stoddard solvent is a mixture of C_7 to C_{12} hydrocarbons primarily containing straight and branched chain alkanes (30 to 50%), cycloalkanes (30 to 40%) and alkyl aromatic hydrocarbons (10 to 20%)¹. The TVH analysis includes detection of C_7 to C_{12} hydrocarbons while the TEH analysis includes detection of C_{10} to C_{24} hydrocarbons. The TVH analysis is an appropriate and representative analysis for quantifying Stoddard solvent.

SUMMARY OF PREVIOUS INVESTIGATION ACTIVITIES

On March 8, 2003, Stellar Environmental Solutions, Inc. (Stellar) performed subsurface investigation activities at the site; investigation work was reported in Stellar's March 18, 2003 *Subsurface Site Investigation Report*. Four borings, designated BH-01 through BH-04 were advanced at the site. Soils encountered during drilling consisted of base rock fill to approximately 2.5 feet below ground surface (bgs), underlain by a fine-grained sand to a depth of approximately 5.5 feet bgs. The sand layer is underlain by clayey sand to depths ranging from 10 feet bgs to 15 feet bgs, the maximum depth explored. In Boring BH-01, the clayey sand was underlain by a medium-grained sand from a depth of approximately 10 feet bgs to 12 feet bgs. Groundwater was encountered at depths ranging from 10 feet bgs to 13 feet bgs in each of the borings. Based on regional topography and information from monitoring activities performed at a site on the corner of Webster Street and Pacific Avenue from 1993 to 1995, groundwater flow at the site is generally west.

Soil samples were collected at depths ranging from 6.5 feet bgs to 12.5 feet bgs, and grab-groundwater samples were collected from each of the boreholes. All samples were analyzed in the laboratory for gasoline range and Stoddard solvent range total volatile hydrocarbons (TVHg and TVHss, respectively) and diesel range and motor oil range total extractable hydrocarbons (TEHd and TEHmo, respectively) by Environmental Protection Agency (EPA) Method 8015 modified; benzene, toluene, ethyl benzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B; and volatile organic compounds (VOCs) by EPA Method 8260B. In soil, TVHg were detected in two of the four samples at concentrations of 4.7 parts per million (ppm) and 8,800 ppm. TVHss were detected in two of the four samples

U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registery (June 1995), Toxicological Profile for Stoddard Solvent.

at concentrations of 3.1 ppm and 5,800 ppm. The laboratory reported that the TVHg and TVHss results did not match the chromatogram standard for gasoline and Stoddard solvent. BTEX compounds, MTBE, TEHd, and TEHmo were not detected in any of the soil samples collected. No detectable concentrations of VOCs were found in any of the soil samples collected.

In groundwater, TVHg were detected in two of the four samples at concentrations of 360 parts per billion (ppb) and 270 ppb. TVHss were detected at concentrations of 270 ppb and 280 ppb. BTEX compounds were detected in one of the four samples with benzene detected at a concentration of 0.68 ppb. MTBE was detected in three of the four samples at concentrations ranging from 2.1 ppb to 7.4 ppb. TEHd were detected in all four samples at concentrations ranging from 86 ppb to 8,400 ppb. TEHmo were detected in two of the four samples at concentrations of 470 ppb and 2,600 ppb. Grab-groundwater samples contained chloroform in one of four samples at a concentration of 1.0 ppb; trichloroethene (TCE) in two of four samples at concentrations of 1.3 ppb and 1.9 ppb; tetrachloroethene (PCE) in two of four samples at concentrations ranging of 1.9 ppb and 2.6 ppb, trans 1,2-dichloroethene (trans 1,2-DCE) in one of four samples at a concentration of 0.5 ppb and cis 1,2-dichloroethene (cis 1,2-DCE) in one of four samples at a concentration of 0.7 ppb. Four additional borings (BH-05 through BH-08) were advanced in the eastern portion of the 1713 Webster Street address. The soil results from these borings indicated non-detectable TVH, BTEX, and MTBE. TEH concentrations ranged from non-detectable to 9.6 ppm. Groundwater samples from these borings indicated nondetectable TVH and BTEX. MTBE ranged from non-detectable to 340 ppb, and TEH ranged from 72 to 190 ppb. No further investigation is required at this time for the suspected underground storage tank at 1713 Webster Street as indicated by ACHCSA in a letter dated March 17, 2006.

Based on the findings of the investigation, Stellar recommended review of additional environmental records to identify the sources of the impact discovered, the advancement of additional borings to define the lateral extent of Stoddard solvent impact, notification of relevant regulatory agencies regarding the findings, and an eventual site closure assessment after completion of additional assessment work.

On March 25, 2003, Stellar performed additional soil sampling along an exposed sanitary sewer trench at the site. This phase of the investigation was reported in Stellar's April 2, 2003 Report of Soil Analytical Results, Sanitary Sewer Line Trench at 649 Pacific Avenue, Alameda, California. Soil conditions along the trench were not logged during this phase of the investigation. A total of 9 soil samples were collected along the trench and 1 soil sample was collected from the base of the floor drain leading to the sanitary sewer line. Soil samples from along the sewer trench were collected from two depths at each of four locations. All samples were analyzed for TVHss, BTEX, and MTBE. TVHss was detected in three of the nine samples at concentrations ranging from 960 ppm to 2,700 ppm; all the samples with detected TVHss concentrations were from the lower soil strata at depths ranging from 7.5 feet to 8.0 feet bgs.

Trace concentrations of ethyl benzene and xylenes were detected in the same three samples. MTBE was not detected in any of the samples collected.

Remedial investigation activities performed by Stellar between March and July 2003 were documented in Stellar's July 31, 2003 Site Remedial Investigation Report. Some of the data discussed in the July 31, 2003 report were previously reported in Stellar's March 18, 2003 and April 2, 2003 reports. The July 31, 2003 report summarized new findings and the findings of these previous investigation activities. A total of 16 additional soil borings were advanced on July 9 and July 10, 2003. Groundwater was encountered at depths ranging from ranging from 10 feet bgs to 13 feet bgs in each of the borings. A total of 14 soil samples collected from the borings were selected for laboratory analyses; samples were analyzed for TVHss, BTEX compounds, and MTBE. Four of the samples were also analyzed for TEH. TVHss were detected in two of the soil samples at concentrations of 17 ppm and 1,900 ppm. TEH range hydrocarbons were detected in three soil samples at concentrations ranging from 9.4 ppm to 3,700 ppm. BTEX compounds and MTBE were not detected in any of the soil samples analyzed. A total of nine grab-groundwater samples were collected and analyzed for TVHss, BTEX compounds, and MTBE. Four of the grab-groundwater samples were also analyzed for TEH. TVHss were detected in one of the samples at a concentration of 99,000 ppb. TEH were detected in all four samples at concentrations ranging from 100 to 250 ppb. Trace concentrations of toluene (two samples) and total xylenes (one sample) were detected. MTBE was detected in seven of the nine grab-groundwater samples at concentrations ranging from 3.3 ppb to 12 ppb. During July 2003, five additional borings (BH-13, BH-14, and BH-31 through BH-33) were advanced at the 1713 Webster Street address, adjacent to the subject site. Borings BH-31 through BH-33 were drilled inside the subject site building, south of the 1713 Webster portion. The groundwater samples from these indicated MTBE at concentrations ranging from 32 to 760 ppb, and TEH at 160 to 220 ppb.

Based on the results of previous investigations, Stellar attributed the soil and groundwater impact to former uses of the 649 Pacific Avenue building and potential discharges from the sanitary sewer line. After review of investigation data, RRM, Inc. (RRM) has also concluded that the sanitary sewer is the most likely source of Stoddard solvent impact at the site.

Based on the findings of investigation activities performed at the site, Stellar prepared a corrective action plan (CAP) dated July 31, 2003. The corrective action for the site proposed by Stellar included excavation of soil from beneath the floor of the 649 Pacific Avenue site. Stellar estimated that approximately 150 tons of impacted soil would be removed during the excavation activities to remove impacted soil to concentrations at or below 100 ppm. Stellar also proposed confirmation soil sampling following the removal of impacted soils. After completion of soil excavation and site restoration activities, Stellar proposed the installation of four groundwater monitoring wells and the performance of quarterly groundwater monitoring activities to confirm the effectiveness of the remedial excavation.

Pursuant to the recommendations made by Stellar and RRM, Inc. (RRM), RRM recommended in the March 2004 work plan that a soil and groundwater investigation be performed. The general scope for this investigation included installing five groundwater monitoring wells, well development, sampling, and surveying, and laboratory analyses of soil and groundwater samples. Borings MW-1 though MW-5 were advanced to 20 feet below ground surface, and completed as 2-inch diameter groundwater monitoring wells. Wells MW-1 and MW-2 were completed inside the building at 649 Pacific Avenue, and wells MW-3, MW-4 and MW-5 were located in the parking lot immediately west of the building. These well locations were selected to delineate soil and groundwater conditions in the vicinity and downgradient of the previously identified Stoddard solvent detections.

Selected soil samples were analyzed in the laboratory for TPHss and BTEX. Groundwater samples from each well were analyzed in the laboratory for TPHss, TPHg, and BTEX. Soils beneath the site consisted predominantly of silty sand to the maximum depth explored of 20 feet bgs. Wells MW-2, MW-3, MW-4 and MW-5 also penetrated a clayey sand layer ranging in thickness from approximately 1 to 4 feet, within the depth interval from 4 to 11 feet bgs. Groundwater was encountered and stabilized at depths of approximately 5.0 to 5.6 feet bgs on March 1, 2005. Groundwater flow direction was calculated toward the northeast at a gradient of approximately 0.004 feet/foot. The soil analytical data indicate non-detectable concentrations of TPHss in all borings except for Well MW-1, which had 380 ppm TPHss at a depth of 10 feet bgs, and 7 ppm TPHss at 20 feet bgs. BTEX concentrations were below detection limits in all soil samples analyzed. The groundwater analytical data indicate non-detectable concentrations of TPHss and TPHg in all wells except Well MW-1, which had 550 ppb TPHss. BTEX concentrations were also non-detectable, except for toluene in wells MW-1 and MW-2. These wells had 0.73 and 0.53 ppb toluene detected, respectively. Based on the results of this investigation, RRM recommended quarterly monitoring of the five wells for a period of at least one year to provide data for evaluation of plume stability.

Based on two years of groundwater monitoring in 2005 and 2006 of wells MW-1 through MW-5, groundwater levels have ranged from 5.30 feet to 7.89 feet below top of well casing. Groundwater flow has been consistently to the northeast at gradients magnitudes ranging from 0.01 to 0.07 feet/feet. Groundwater beneath the site may be tidally influenced based on the proximity of the San Francisco Bay. Only low levels of TPHss, TPHg, toluene, PCE, TCE and chloroform have been detected in groundwater. The dissolved plume is stable and decreasing. Soil data indicates that the bulk of Stoddard solvent affected soil was encountered between approximately 6.5 and 8 feet bgs, soil which is now submerged below groundwater.

In the *Groundwater Monitoring Results – Fourth Quarter 2005* report, RRM recommended that the site be evaluated for low-risk closure based on four quarters of groundwater monitoring data. In response, the ACHCSA requested submission of a work plan to evaluate the potential for

indoor air vapor intrusion of total volatile hydrocarbons due to Stoddard solvent impacts to soil and groundwater.

Trinity submitted the requested workplan on May 15, 2006, and proposed the installation and sampling of three semi-permanent soil vapor probes. The work was completed in October 2006. With the approval of ACHCSA, Trinity installed the sub-slab probes rather than semi-permanent soil gas probes in soil borings. In general, the sub-slab vapor probes (VS-1, VS-2, and VS-3) yielded elevated concentrations of Stoddard solvent as well as several chlorinated volatile organic compounds (VOCs) in the vadose zone immediately beneath the building foundation slab.

To further delineate the extent of the Stoddard solvent and VOCs beneath the site building, Trinity submitted a workplan addendum dated April 6, 2007 proposing the installation and sampling of six additional sub-slab vapor probes. These probes evaluated the concentrations of Stoddard solvent and VOCs in the vapor immediately beneath the foundation slab of the site building and beneath the adjacent parking lot.

The sub-slab vapor chemical of concern (COC) concentrations were compared to San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) which are shallow soil gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2) for commercial and industrial land use scenarios (SFRWQCB – February 2005). ESLs are presented in Table 1 along with the site analytical results. COCs in sub-slab vapor that exceeded a particular ESL for commercial or industrial land use are as follows:

- Chloroform as detected in Probes VS-1 and VS-5.
- Carbon tetrachloride as detected in Probes VS-1 through VS-7.
- PCE as detected in Probes VS-1 through VS-8.

Figures 3 through 6 illustrate the COC concentrations detected in Probes VS-1 through VS-9, and the analytical results are summarized on Table 1. Other constituents that have been detected in sub-slab vapor samples but which are not a concern for the site based on ESLs for commercial and industrial land use are Stoddard solvent, Trans-1,2-DCE, cis-1,2-DCE, TCE, acetone, Freon 11, carbon disulfide, chloroethane, and methyl ethyl ketone.

Based on these results, Trinity recommended a Phase III investigation (described below) to further delineate the extent of COCs in the sub-slab vapor.

SCOPE OF WORK

The scope of work for this investigation included installation and sampling of five additional sub-slab vapor probes (VS-10 through VS-14) inside the building at 649 and 651 Pacific Avenue, and 1713 Webster Street. Sub-slab vapor probe locations are shown on Figure 2.

The following tasks comprise the scope of work performed to complete the Phase III sub-slab vapor investigation. Field procedures are included as Attachment B, and field data sheets are included as Attachment C.

- Trinity repared a Health and Safety Plan which was maintained on-site during field work activities.
- On July 31 and August 1, 2007, Trinity installed sub-slab vapor probes VS-10 through VS-14 inside the building of Kelly-Moore Paints at 649 and 651 Pacific Avenue and the adjacent East Ocean Seafood Restaurant at 1713 Webster Street. The probe locations are shown on Figure 2. Some of these were moved slightly from the originally-proposed locations, due to property use constraints.
- On August 16, 2007, Trinity sampled probes VS-10 through VS-14 for the presence of Stoddard solvent using Modified EPA Method TO-3 and volatile organic compounds (VOCs) Modified EPA Method TO-15 Full Scan. This analysis included the leak test compound, isopropyl alcohol (2-propanol).
- On August 16, 2007, during vapor sampling using summa canisters, Trinity collected a
 Tedlar bag sample from the sampling shroud atmosphere for probes VS-14
 (VS-14QC-ALC) and analyzed the bag sample for the presence of isopropyl alcohol using
 Modified EPA Method TO-15 Full Scan.
- All the listed analyses were conducted by a California State-certified laboratory within 14 days of collection. Analytical reports and chain-of-custody documentation are presented as Attachment D.
- Trinity prepared this Phase III Sub-Slab Vapor Investigation Report.

RESULTS

Phase III sub-slab vapor sampling was conducted on August 16, 2007. Analytical results for Stoddard solvent, VOCs, and the leak test compound isopropyl alcohol are discussed below.

Stoddard Solvent: Vapor sampling results for Probes VS-10 through VS-14 indicate that Stoddard solvent was detected in three out of the five samples analyzed at concentrations ranging from 590 micrograms per cubic meter ($\mu g/m^3$) in Probe VS-12 to 18,000 $\mu g/m^3$ in Probe VS-13. These concentrations are all below the applicable SFRWQCB ESL for Stoddard solvent.

VOCs: Chloroform was detected in two out of five samples analyzed at concentrations of 6.5 $\mu g/m^3$ in Probe VS-12 and 29 $\mu g/m^3$ in Probe VS-11. These concentrations are all below the applicable SFRWQCB ESL for chloroform.

Carbon tetrachloride was detected in two of five samples analyzed at concentrations of 13 $\mu g/m^3$ in Probe VS-12 and 810 $\mu g/m^3$ in Probe VS-11. The carbon tetrachloride result for Probe VS-11 exceeds the applicable SFRWQCB ESL of 190 $\mu g/m^3$.

PCE was detected in four of the five samples analyzed at concentrations ranging from 25 $\mu g/m^3$ in Probe VS-14 to 3,100 $\mu g/m^3$ in Probe VS-11. The PCE concentration in Probe VS-11 exceeds the applicable SFRWQCB ESL of 1,400 $\mu g/m^3$.

Isopropyl Alcohol: The leak test compound isopropyl alcohol (2-propanol) was detected $16 \,\mu g/m^3$ in Probe VS-14 to 24,000 $\,\mu g/m^3$ in Probe VS-13. A sample of the sampling shroud atmosphere was collected in a Tedlar bag at Probe VS-14, and designated VS-14-QC-ALC. This sample was analyzed for isopropyl alcohol, and was found to contain a concentration of 11,000 $\,\mu g/m^3$.

Other Compounds: Acetone was detected in two of the five samples, at concentrations of $27~\mu g/m^3$ in Probe VS-11 and $100~\mu g/m^3$ in Probe VS-13. Freon 11 was detected in two of the five samples, at concentrations of $20~\mu g/m^3$ in Probe VS-10 and $100~\mu g/m^3$ in Probe VS-13.

Additionally, Probe VS-11 had ethanol at detected 89 $\mu g/m^3$ and 1,1,1-trichloroethane at 7.6 $\mu g/m^3$. Probe VS-12 had ethanol detected at 37 $\mu g/m^3$ and 1,2,4-trimethylbenzene at 23 $\mu g/m^3$. Probe VS-13 had 2-butanone detected at 20 $\mu g/m^3$ and m,p-xylene at 30 $\mu g/m^3$.

Results of Phase I soil vapor sampling and the SFRWQCB ESLs (February 2005) are presented in Table 1. Chemical concentration maps showing the vapor concentrations in sub-slab samples for Stoddard solvent, chloroform, carbon tetrachloride, and PCE are presented as Figures 3 through 6, respectively.

CONCLUSIONS

Based on the results of the Phase III sub-slab vapor investigation results, Stoddard solvent and VOCs are present locally beneath the concrete slab at the Kelly Moore Paints store building located at 649 Pacific Avenue, and the adjacent East Ocean Seafood Restaurant at 1713 Webster Street. The Phase III investigation indicated only one sub-slab vapor probe (VS-11) where COCs have exceeded a particular ESL for commercial or industrial land use. At Probe VS-11, carbon tetrachloride and PCE exceeded their respective ESLs. Figures 3 through 6 show the estimated extent of each of these VOCs in excess of ESLs, using the data generated for the existing Phase I, Phase II and Phase III sub-slab vapor probes.

Other constituents that have been detected in the Phase III sub-slab vapor samples but which are not a concern for the site based on ESLs for commercial and industrial land use are Stoddard solvent, chloroform, acetone, Freon 11, ethanol, 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 2-butanone and m,p-xylene.

The relatively high concentration of isopropyl alcohol (11,000 $\mu g/m^3$) detected in the shroud atmosphere Tedlar bag sample confirms that leak test compound was present beneath the sampling shroud during the collection of vapor samples.

The detection of isopropyl alcohol in the sample collected from Probes VS-13 at the relatively high concentration of 24,000 $\mu g/m^3$ may indicate a low bias for the other analyses from this probe location. As indicated below, Trinity recommends that this probe be re-sampled.

The results of this investigation indicate that the sub-slab vapor concentrations are adequately defined to allow further development of remedial measures. These are described below under "Recommendations."

RECOMMENDATIONS

Based on the results of the Phase I, II and III sub-slab vapor investigations, Trinity recommends re-sampling of selected sub-slab probes, and remedial measures to prevent the migration of COC vapors from the sub-slab area into the building. These measures will include conducting the following scope of work:

- Re-sampling Probes VS-13 and VS-11 to confirm the detections of COCs at these locations. Re-sampling Probe VS-13 is recommended because the detection of leak test compound indicated that the sample analysis may not be representative of sub-slab conditions. Probe VS-11 had concentrations of PCE and carbon tetrachloride higher than the applicable ESLs, and so re-sampling prior to system design is recommended to confirm these levels.
- Inspect the building foundation for all COC vapor entry points such as cracks in the slab
 or foundation, gaps in fieldstone walls, construction joints between walls and slabs,
 annulus space around utility pipes, open sumps, etc. Possible entry points will be
 monitored with a part per billion range photo-ionization detector.
- Seal off all possible entry routes, if possible, to prevent the entrance of sub-slab vapors
 and enhance the sub-slab negative pressure field when a sub-slab depressurization (SSD)
 system is in operation. Trinity recommends that this work be done concurrently with the
 diagnostic testing described below.
- Perform diagnostic testing of the air flow characteristics and capacity of the material(s) beneath the slab for the purpose of designing a SSD system. As indicated in the Guidelines For The Design, Installation, and Operation of Sub-Slab Depressurization Systems, Massachusetts Department of Environmental Protection, December 1995: "The purpose of the SSD system is to create a negative pressure field directly under the building in relation to the building ambient pressure. This negative pressure field becomes a "sink" for any gases present in the vicinity of the structure. VOCs caught in

the advective sweep of this negative pressure field are collected and piped to an ambient air discharge point."

The diagnostic testing results will determine the type of fan or blower used for the SSD system. Generally, one of two types of system will be specified: low pressure/high flow or high pressure/low flow.

 Based on the results of the recommended diagnostic testing, design, permit, install, and operate a SSD system to mitigate VOC vapor intrusion concerns for the site structure(s).

SCHEDULE

The ACHCSA presented a technical report request with schedule in their July 20, 2007 letter (Attachment A). Trinity requests a modification to the schedule, as follows:

- Inspection and sealing of concrete slab entry points to be performed as part of the feasibility testing for the SSD system, and to be reported with submittal of the plans for the SSD system.
- Plans for the SSD system to be submitted to ACHCSA by November 30, 2007. This
 schedule will allow time for the re-sampling and analysis of selected probes, coordination
 with the property owners and tenants for building access for the diagnostic testing, and
 for identification of optimum locations for installing various components of the SSD
 system (sub-slab vapor extraction points, vapor conduit, fan, treatment facility, etc.)

DISTRIBUTION

A copy of this report has been forwarded to the following:

Mr. Don Lindsey Timber Del Properties, L.L.C. 2424 Central Avenue Alameda, California 94501

Ms. Georgia Turner The Mechanics Bank 1999 Harrison St., Suite 100 Oakland, California 94612

If you have any questions regarding this investigation report, please call Trinity at (831) 426-5600.

Sincerely,

TRINITY SOURCE GROUP, INC.

Debra J. Moser, PG, CEG, CHG

President and Principal Geologist

Senior Geologist

Attachments

Table 1 – Sub-Slab Vapor Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Figure 1 – Site Location Map

Figure 2 – Sub-Slab Vapor Probe Location Map

Figure 3 - Stoddard Solvent in Sub-Slab Vapor Concentration Map

Figure 4 - Chloroform in Sub-Slab Vapor Concentration Map

Figure 5 - Carbon Tetrachloride in Sub-Slab Vapor Concentration Map

Figure 6 – PCE in Sub-Slab Vapor Concentration Map

Attachment A - ACHCSA Correspondence

Attachment B – Field Procedures

Attachment C - Field Data Sheets

Attachment D – Certified Analytical Reports and Chain-of-Custody
Documentation

TABLE

Table 1
Sub-Slab Soil Vapor Probe Sample Analytical Data
(Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

		Modified EPA Analytical Test Methods														
		TO-3	TO-15													
Sample ID	Sample Date	Stoddard Solvent (µg/m³)	Chloroform (µg/m³)	Carbon Tetra- chloride (µg/m³)	PCE (µg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	cis-1,2- Dichloro- ethene (µg/m³)	TCE (μg/m³)	Acetone (μg/m³)	Freon 11 (µg/m³)	Carbon Di- sulfide (μg/m³)	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)			
Sub-Slab Soil	Vapor Probe S	amples					· · · · · · · · · · · · · · · · · · ·						40			
VS-1	10/25/2006	4,100	2,500	42,000	6,700	< 87	< 87	< 120	<210	<120	<68	<58	<220			
VS-1 DUP	10/25/2006	4,100	2,400	40,000	7,000	< 170	< 170	< 240	<420	<250	<140	<120	<430			
VS-2	10/25/2006	1,600	740	8,400	5,800	< 17	< 17	< 23	<41	<24	<13	<11	<42			
VS-3	10/25/2006	9,100	490	1,400	11,000	70	47	98	<56	<33	<18	<16	<58			
VS-3	5/7/2007		430	1,500	9,500	51	47	88	41	<24	<13	<11	<42			
VS-3	6/4/2007	21,000	-										36,000			
VS-3 DUP	6/4/2007	21,000											36,000			
VS-4	5/7/2007		93	15,000	1,600	<34	<34	<46	<82	<49	<27	<23	<85			
VS-4	6/4/2007	980											<28			
VS-5	5/7/2007		1,600	5,300	1,700	<12	<12	<16	30	<17	<9.3	<7.9	<29			
VS-5	6/4/2007	870											160			
VS-5 DUP	6/4/2007												140			
VS-6	5/7/2007	*	420	7,500	2,500	< 17	< 17	<23	<41	<24	<13	<11	<42			
VS-6	6/4/2007	920											42			
VS-7	5/7/2007		8.3	550	1,900	<4.4	<4.4	<5.9	16	20	6.8	<2.9	<11			
VS-7	6/4/2007	8,800	***										15,000			
VS-8	5/7/2007		44	94	1,500	<4.4	<4.4	<6.0	18	<6.3	<3.5	<3.0	<11			
VS-8	6/4/2007	2,800											4,600			
VS-9ª	5/7/2007		590	<7.0	42	<4.4	<4.4	<6.0	160	<6.3	73	4.1	+,000 <11			
VS-9ª	6/4/2007	<310											200			

Table 1 Sub-Slab Soil Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

			Modified EPA Analytical Test Methods													
	·	TO-3	D-3 TO-15													
Sample ID	Sample Date	Stoddard Solvent (µg/m³)	Chloroform (µg/m³)	Carbon Tetra- chloride (µg/m³)	PCE (μg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	cis-1,2- Dichloro- ethene (µg/m³)	TCE (µg/m³)	Acetone (µg/m³)	Freon 11 (µg/m³)	Carbon Disulfide	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)			
VS-10	8/16/2007	<370	<6.2	<8.0	32	<5.0	<5.0	<6.8	<12	20	<3.9	<3.3	<12			
VS-11 ^b	8/16/2007	3,000	29	810	3,100	<4.8	<4.8	<6.5	27	<6.8	<3.8	<3.2	270			
VS-12 ^c	8/16/2007	590	6.5	13	180	<4.8	<4.8	<6.5	<11	<6.8	<3.8	<3.2	<12			
VS-13 ^d	8/16/2007	18,000	<24	<30	<33	<19	<19	<26	100	100	<15	<13	2 <u>4,000</u> E			
VS-14	8/16/2007	<340	<5.7	<7.3	25	<4.6	<4.6	<6.3	<11	<6.5	<3.6	<3.1	16			
Shroud Atmosi	ohere Sample	s for Leak	Test Comp	ound Con	firmation	ı							. •			
VS-7-QC	5/7/2007												99,000			
VS-7-QC	6/4/2007												150,000			
VS-8-QC	5/7/2007									_			530,000 E			
VS-14-QC-ALC	8/16/2007								<u></u>				11,000			
			SF	RWQCB E	SLs (µg/r	n³) Comm	ercial/Indu	strial Pro	perty Use				77,000			
		72,000	1,500	190	1,400	41,000	20,000	4,100	1,800,000	NA	NA	9,900	NA			
				SFRWQCI	B ESLs (ι	ıg/m³) Resi	dential Exp	osure								
Notes:		26,000	450	57	410	15,000	7,300	1,200	660,000	NA	NA NA	2,900	NA			

NA = not available or applicable

E = exceeds instrument calibration range

-- = not analyzed

DUP = Duplicate sample

EPA = Environmental Protection Agency

PCE = Tetrachloroethene

TCE = Trichloroethene

μg/m³ = micrograms per cubic meter

<= not detected at or above value shown

SFRWQCB ESLs = San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs), shallow gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2), Commercial/Industrial Land use, - February 2005

BOLD = chemical exceeds its respective ESL

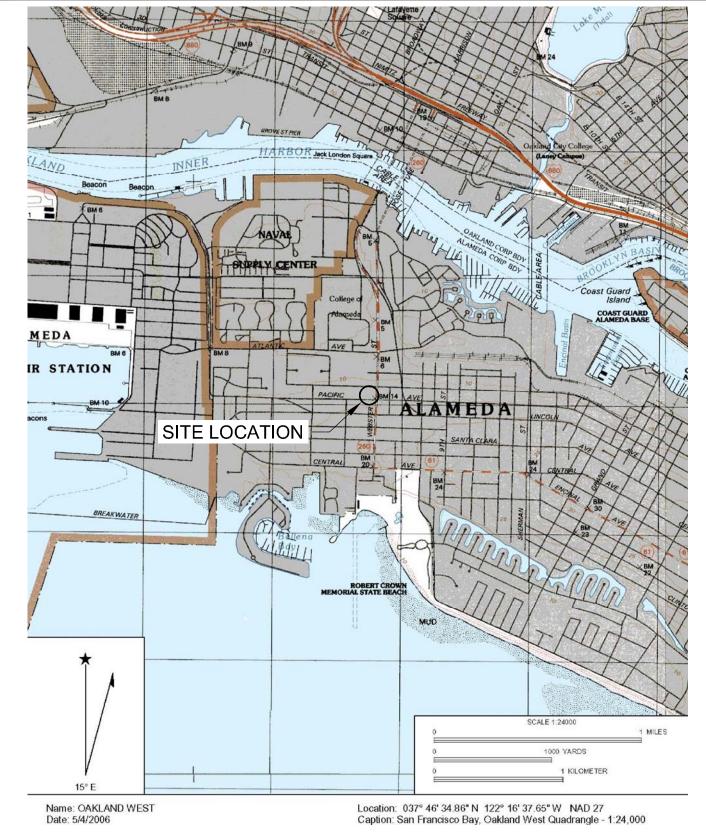
Table 1 Sub-Slab Soil Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

		Modified EPA Analytical Test Methods												
		TO-3						TO-15	;					
Sample ID	Sample Date	Stoddard Solvent (µg/m³)		Carbon Tetra- chloride (µg/m³)	PCE (µg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	-	TCE (µg/m³)	Acetone (μg/m³)	Freon 11 (µg/m³)	Carbon Disulfide	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)	

- a = Additional TO-15 Compounds detected in VS-9:
 2-Butanone (Methyl Ethyl Ketone) at 12 μg/m³
- b = Additional TO-15 Compounds detected in VS-11: Ethanol at 89 μ g/m³
 - 1,1,1-Trichloroethane at 7.6 µg/m3
- c = Additional TO-15 Compounds detected in VS-12: Ethanol at 37 μ g/m³
 - 1,2,4-Trimethylbenzene at 23 µg/m³
- d = Additional TO-15 Compounds detected in VS-13:
 2-Butanone (Methyl Ethyl Ketone) at 20 μg/m³
 m,p-Xylene at 30 μg/m³

FIGURES



REF. 103_002\SLM.DWG BASEMAP FROM MAPTECH, INC.

FREPARED BY

TRINTY

Source group, inc.

500 Chestrut Street, Suite 225
Santa Cruz, CA. 95060

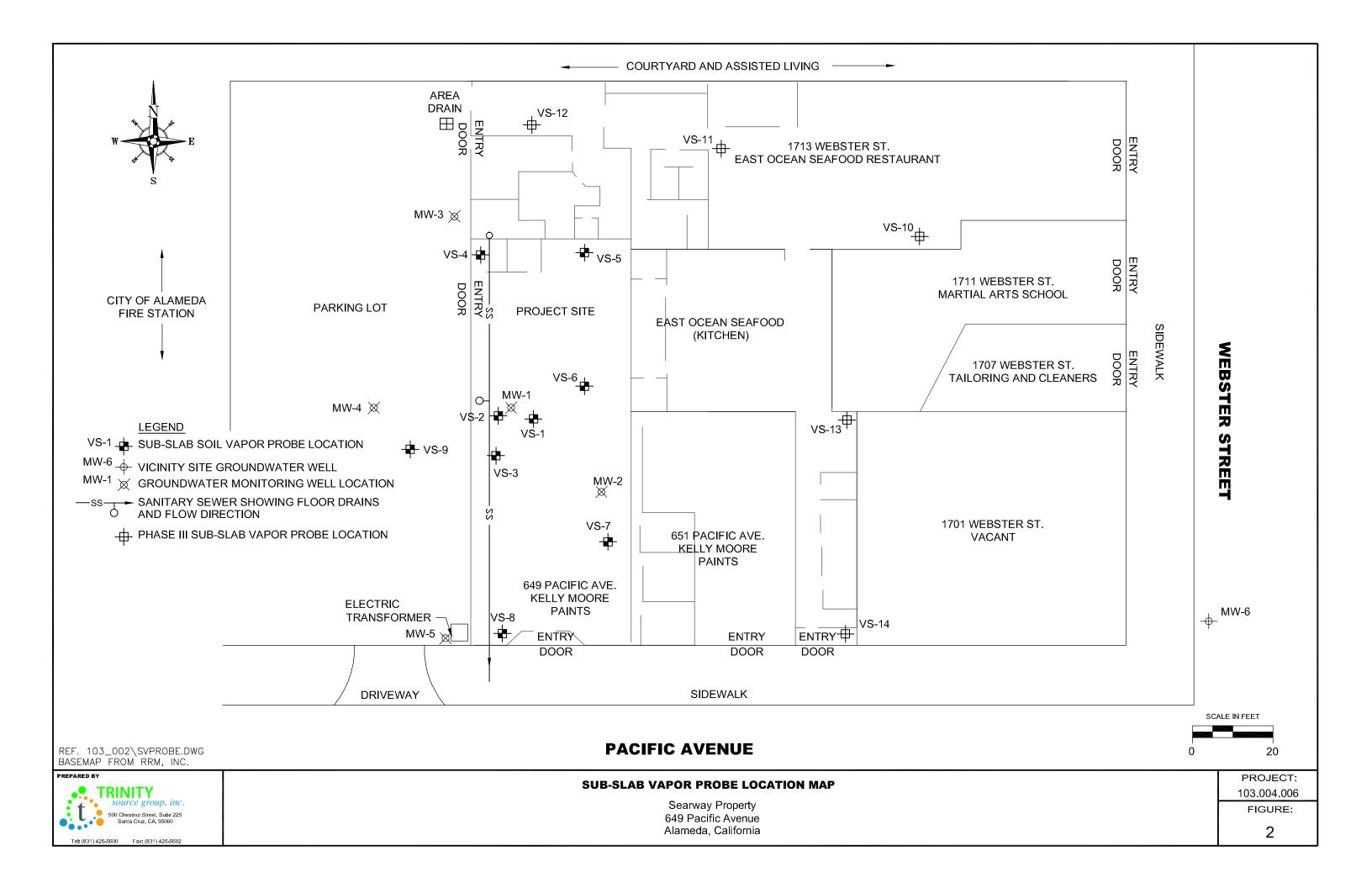
Tet: (831) 426-5600 Fax: (831) 426-5602

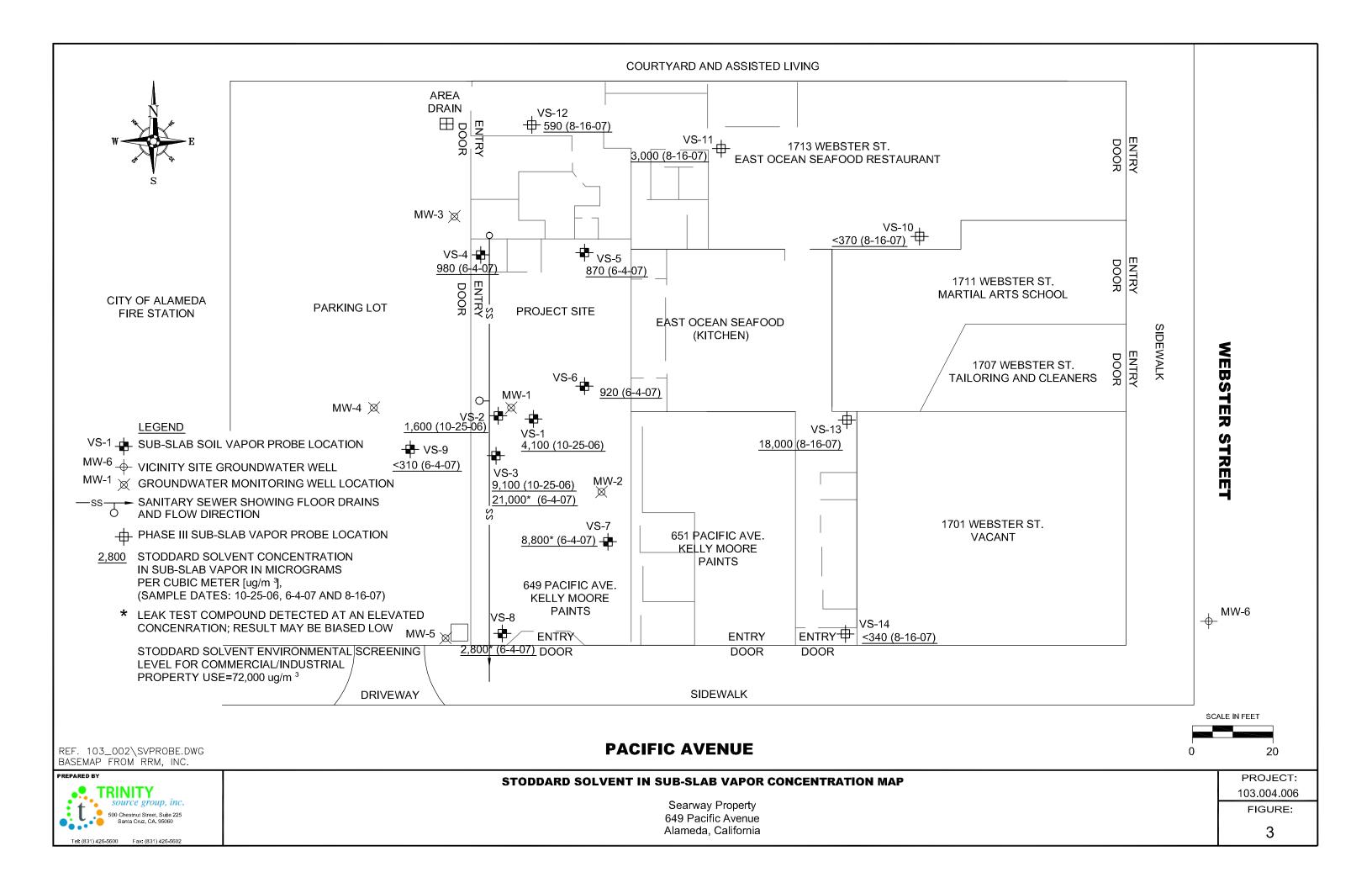
SITE LOCATION MAP

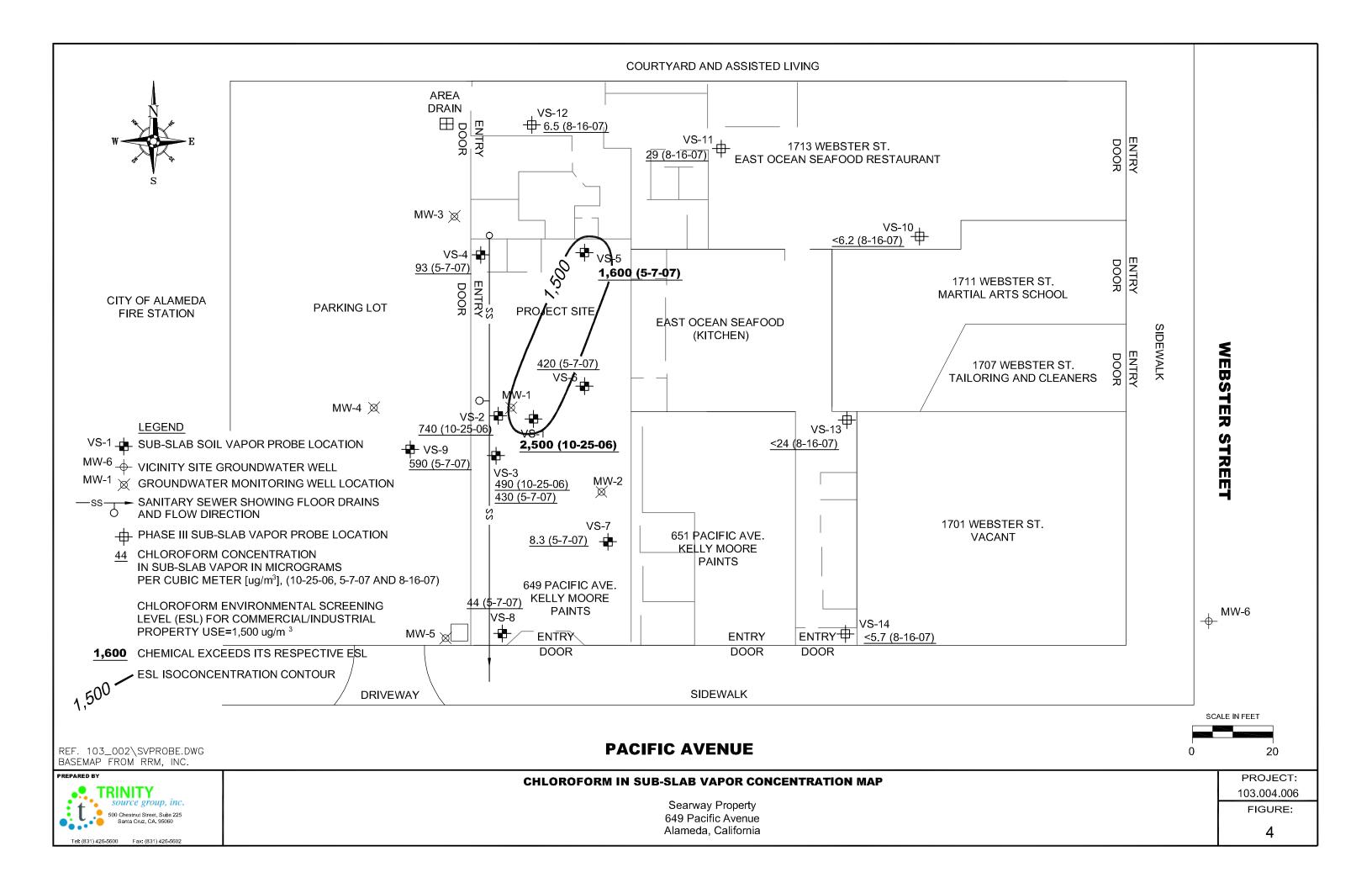
Searway Property 649 Pacific Avenue Alameda, California PROJECT: 103.004.006

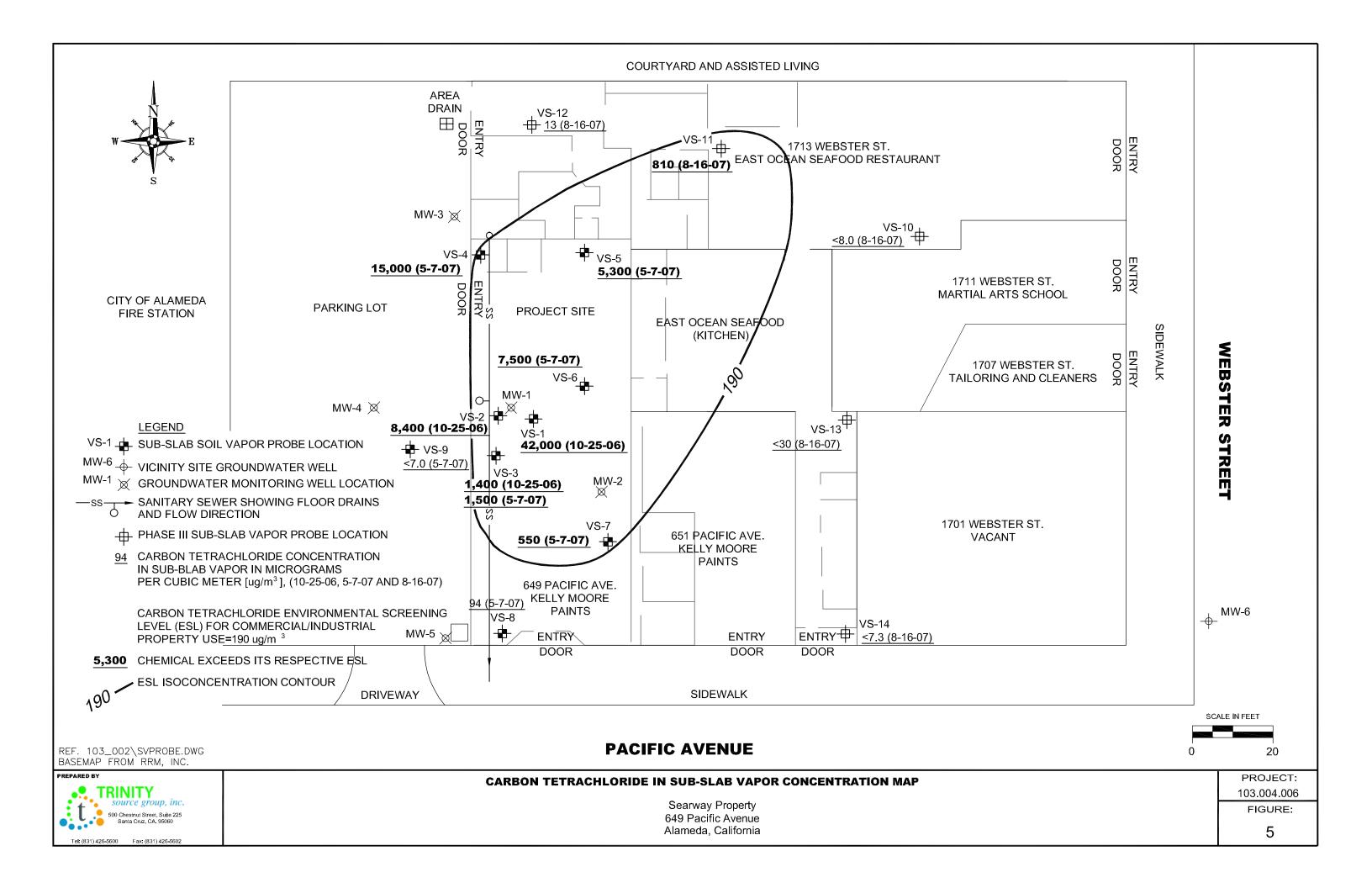
FIGURE:

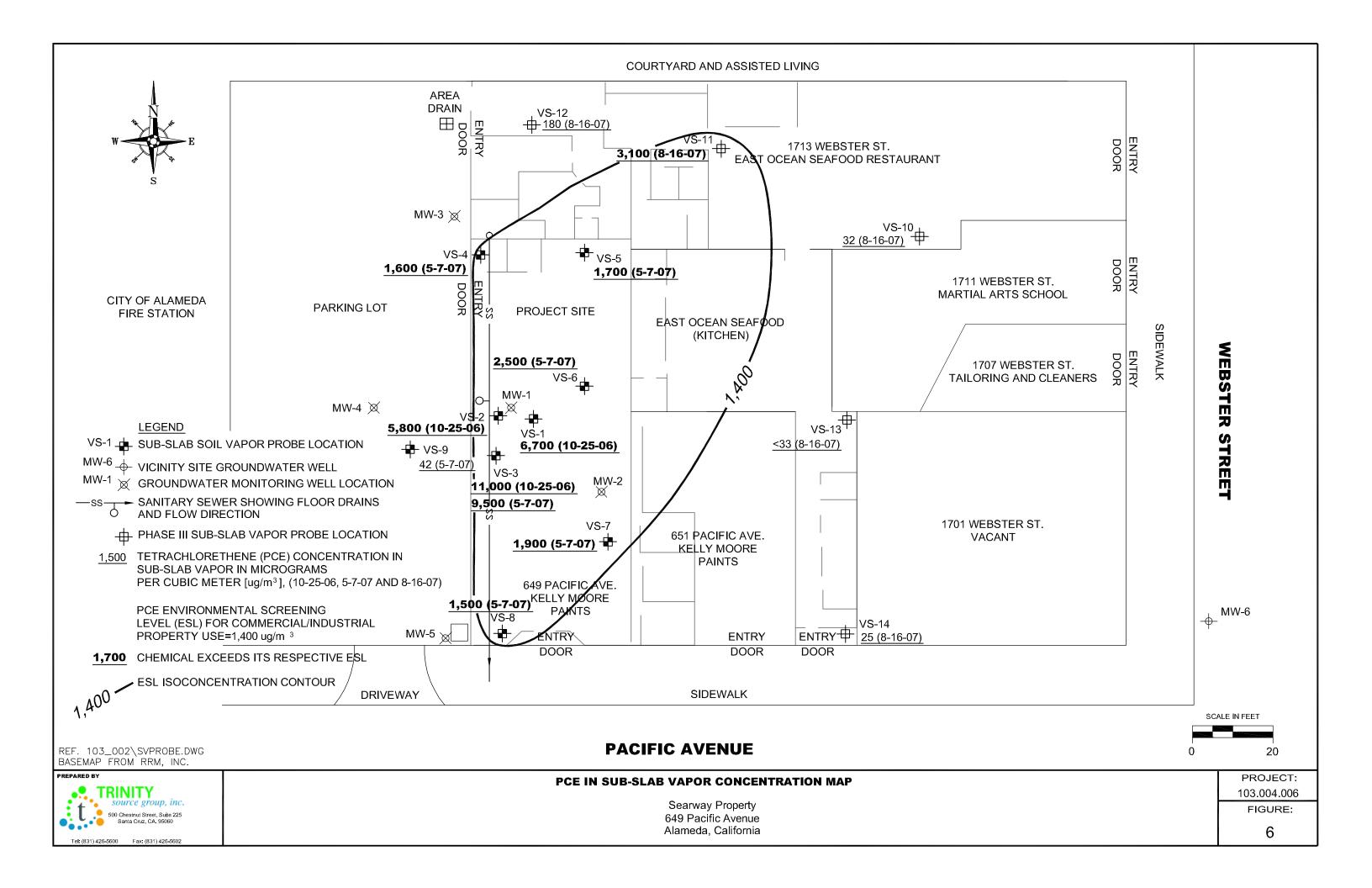
1











ATTACHMENT A ACHCSA CORRESPONDENCE

ALAMEDA COUNTY HEALTH CARE SERVICES







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

July 20, 2007

Mr. Donald Lindsey Timber Del Properties, LLC 2424 Central Avenue Alameda, CA 94501

Mr. Carl Searway 3032 Dakota Street Oakland, Ca 94602

Subject: SLIC Case No. RO0002584 and Geotracker Global ID SL0600150413, Searway Property, 649 Pacific Avenue, Alameda, CA 94501

Dear Mr. Lindsey and Mr. Searway:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Sub-Slab Vapor Investigation Report," dated July 11, 2007 and prepared on your behalf by Trinity Source Group, Inc. The report presents the results from installation and sampling of five soil vapor probes (VS-3 through VS-8) inside the building at 649 Pacific Avenue and one soil vapor probe in the parking lot outside the building (VS-9). Volatile organic compounds (VOCs) including carbon tetrachloride, chloroform, and tetrachloroethene were detected at elevated concentrations in soil vapor at several locations inside the building. The extent of the VOC vapor plume has not been defined; therefore, additional sub-slab vapor sampling is required. As discussed in technical comment 1 below, we concur with the recommendation in the Sub-Slab Vapor Investigation Report to conduct a third phase of sub-slab vapor sampling in adjacent portions of the building.

The elevated concentrations of VOCs detected beneath 649 Pacific Avenue pose a potential risk to human health through vapor intrusion from below the building slab to indoor air. Remediation will be required to mitigate VOC vapor intrusion concerns.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. Proposed Sub-Slab Soil Vapor Sampling. The Sub-Slab Vapor Investigation Report recommends sub-slab soil vapor sampling at five locations north and east of existing soil vapor probes at 649 Pacific Avenue. We concur with the proposed locations. Step-out sampling is to be conducted if the concentration of any VOC detected during the additional sub-slab vapor sampling exceeds one-half of the Environmental Screening Levels for Shallow Soil Gas and commercial land use. The additional soil vapor sampling is to be

Don Lindsey Carl Searway July 20, 2007 Page 2

conducted using the methods described in the "Soil Vapor Sampling Workplan Addendum," dated April 6, 2007. Please present these results in the Sub-Slab Soil Vapor Sampling Report requested below.

- Concrete Slab Entry Points. We concur with recommendation to inspect the building
 foundation for potential VOC vapor entry points. All possible entry points are to be monitored
 with a part per billion-range photoionization detector and then sealed. Please present the
 results in the Sub-Slab Vapor Sampling Report.
- Diagnostic Testing of Sub-Slab Material. Diagnostic testing is to be completed in order to
 provide data for design of a sub-slab depressurization system. Please present the results of
 the diagnostic testing in the Plans for Sub-Slab Depressurization System requested below.
- 4. Plans for Sub-Slab Depressurization System. After the extent of the VOC vapor plume has been defined and the diagnostic testing is completed, please submit plans for the installation and testing of a sub-slab depressurization system. Plans for the Sub-slab Depressurization System are to be submitted by October 20, 2007.

TECHNICAL REPORT REQUEST

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

- August 15, 2007 Semiannual Monitoring Report for First to Second Quarter 2007
- September 20, 2007 Sub-Slab Soil Vapor Sampling Report
- October 19, 2007 Plans for Sub-Slab Depressurization System
- February 15, 2008 Semiannual Monitoring Report for Third to Fourth Quarter 2007

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

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. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Don Lindsey Carl Searway July 20, 2007 Page 3

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. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for 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 monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

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.

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.

Don Lindsey Carl Searway July 20, 2007 Page 4

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: David Reinsma Trinity Source Group 910 Mesa Grande Road Aptos, CA 95003

> Donna Drogos, ACEH Jerry Wickham, ACEH File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

ISSUE DATE: July 5, 2005

REVISION DATE: December 16, 2005

PREVIOUS REVISIONS: October 31, 2005

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

Effective January 31, 2006, 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

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF)
 with no password protection. (Please do not submit reports as attachments to electronic mail.)
- 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)

Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format.
 These are for use by assigned Caseworker only.

Submission Instructions

- 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 dehloptoxic@acgov.org

or

- ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
- 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 and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - 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 dehioptoxic@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 at acgov.org. (e.g., firstname.lastname@acgov.org)
 - The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload)

ATTACHMENT B FIELD PROCEDURES

ATTACHMENT B FIELD PROCEDURES

Phase III Pre-Field Activities

Permitting

Permits for the installation of sub-slab vapor probes were not required.

Health and Safety Plan

Site safety procedures involved the preparation of a site-specific health and safety plan identifying potential chemical and physical hazards which may be encountered during the course of field activities. All Trinity personnel involved in conducting the field activities met OSHA 40 Hour Hazardous Waste Operations and Emergency Response Training.

Phase III Sub-Slab Vapor Sampling Protocol

Preparation of Site Building for Interior Work

The 649 Pacific Avenue structure is currently being used as a Kelly-Moore Paints store, and the 1713 Webster Street structure currently houses the East Ocean Seafood Restaurant. Therefore, any obstructions and/or floor coverings were cleared or removed prior to initiation of probe installation.

Sub-Slab Vapor Sampling

Sub-slab vapor probes VS-10 through VS-14 were installed on July 31, 2007 and August 1, 2007.

All five sub-slab soil gas probes were installed to float in the concrete slab. The installation procedure was consistent with that described by USEPA¹. Sampling and analysis procedure generally followed the guidelines contained in San Mateo County's "Using a Geoprobe to Collect Subsurface Vapor Samples for Human Health Risk Evaluation" (GPP Guidelines, Draft GPP Staff Guidance updated 3/9/06)², San Mateo County's Draft "Subsurface Vapor Sampling for Human Health Risk Evaluation" (Revised 11/14/06) and the California Department of Toxic Substances Control (DTSC) Advisory for Active Soil Gas Investigations dated January 28, 2003³.

The probe installation and sub-slab vapor sample collection procedures are summarized below:

Previous investigation indicated that the concrete slab is 4 to 5 inches thick. Therefore, to install a sub-slab probe, a one-inch diameter hole in the concrete slab was drilled to a depth of approximately 2 to 3 inches using a rotary drill. Prior to penetrating the concrete slab, the drill hole was vacuumed out to remove cuttings. The drill bit was then changed to 5/16-inch, and the hole was advanced approximately an additional 2 to 3 inches through the slab and into the underlying sub-slab material. The sub-slab soil gas probe was assembled using a 2-inch long by \frac{1}{4}-inch inner-diameter (ID) stainless steel or copper tube attached to a stainless steel threaded fitting and Swagelok cap or plug. This assembly was placed into the drilled hole, and grouted into place using non-shrink, quick-setting cement. The cement installation was recessed so that the plug was accessible. The top of the plug was set flush with the top of the concrete slab.

The slab venting probes were allowed to equilibrate for a minimum of one week prior to sample collection.

Mobilization for sub-slab sampling was not conducted if measurable precipitation or site irrigation near the sampling locations occurred in the previous 5 days.

Sampling Set-up: Prior to sampling, the plug on the sub-slab vapor probe was removed and quickly replaced with a closed Swagelok valve. A tee fitting was connected to two one-liter Summa canisters with a pressure gauge installed on top of each of these fittings. Trinity used one-liter purge and sample canisters for this application, in order to collect a sub-slab sample that was most representative of the local area penetrated.

The two Summa canisters were connected by less then 1 foot of copper tubing and a third tee fitting. The vacuum reading on each canister was confirmed and recorded before proceeding. The initial vacuum reading was between 26 to 35 inches mercury (Hg). On the downhole side of

¹ 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.

San Mateo County (2006), Using a Geoprobe to Collect Subsurface Vapor Samples for Human Health Risk Evaluation (GPP Guidelines).

California Environmental Protection Agency, Department of Toxic Substances Control (2003), Advisory – Active Soil Gas Investigations.

the third tee fitting, a 100 to 200 milliliter per minute (ml/min) flow regulator followed by a laboratory supplied particulate filter was installed. On the downhole side of the particulate filter, a vapor-tight valve was installed to connect the sampling equipment with the sub-slab probe tube.

Vacuum Leak Testing: A vacuum test was 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.

Purging: If the vacuum test was successful, purging followed. The purge canister valve and the valve on the downhole side of the particulate filter was opened and the time was recorded. The purge canister valve was closed after three volumes of air were purged from the sample apparatus and drilled probe hole. The purge volume was calculated based on the internal volume of the drilled hole, tubing and probe apparatus. The amount of air purged was measured based on the time that the flow-control orifice was opened, with a flow rate of 100-ml/minute, and based on a discernable vacuum drop on the purge canister pressure gauge. The time at which purging was terminated was recorded on field data sheets (Attachment C).

Soil Gas Sampling: If the vacuum test was successful and at least 30 minutes has passed since the top bentonite seal was hydrated, purging began. The purge canister valve and the valve on the downhole side of the particulate filter were opened and the time was recorded on field data sheets. The purge canister valve was closed after three volumes of air were purged from the sample apparatus and vapor probe. The purge volume was calculated based on the volume of the probe tip and the internal volume of the tubing. The amount of air purged was determined by the incremental drop in vacuum readings on the purge Summa canister. The time at which purging terminated will be recorded.

Following purging, the sample Summa canister valve was opened to begin sample collection. The time at which sample collection began was recorded. Once the sample Summa canister pressure gauge indicated approximately 5 inches of mercury, the sample canister valve was closed and the time recorded. The tee fitting on the sample canister was replaced with a laboratory supplied brass plug. The sample canister was 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 were stored in a container that blocks sunlight to the opaque canisters. None of the Summa canisters were subject to changes in pressure and temperature. The sample canisters were delivered to the analytical laboratory via ground transportation under chain-of-custody documentation.

The flow-control orifice was maintained at 100 to 200 ml/min, and was kept open until the sample Summa canister pressure gauge indicated approximately 5 inches Hg. Once 5 inches of Hg was achieved, the sample canister valve was closed and the time recorded. The tee fitting on the sample canister was replaced with a laboratory supplied brass plug.

During sampling, a leak testing procedure was performed by placing a shroud over the sampling assembly, and maintaining an isopropyl alcohol-enriched atmosphere under the shroud. The shroud was emplaced after purging the vapor probe, but before the sub-slab vapor sample was collected. Isopropyl alcohol-saturated wipes were placed under the shroud. A photoionization detector (PID) was used to monitor the atmosphere beneath the shroud during sampling. Tedlar bag samples were collected from the shroud atmosphere at selected probe locations using a hand-vacuum pump and analyzed at the laboratory. The purpose of the tedlar bag sample analysis was to quantitatively compare shroud atmosphere isopropyl alcohol concentrations to concentrations observed using a PID field instrument, and to document that an isopropyl alcoholenriched atmosphere was maintained during vapor sampling. Shroud PID field readings for isopropyl alcohol for each probe location are noted on the field data sheets presented as Attachment C.

Abandonment of Sub-Slab Venting Probes: The sub-slab vapor probes will be left in place until site data indicates that they are no longer needed. After that time, the probes will be abandoned. To abandon the probes, a roto-hammer will be used to core the grout around the probe assembly. The assembly will be removed from the hole, and the hole will be filled with non-shrinking, quick-setting grout to match finish grade. Surface materials and/or covering will be repaired to match existing conditions.

ATTACHMENT C FIELD DATA SHEETS

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



Project No.: 103.004.010

Facility Name: Kelly Moore Paint Store- Searway Property

Purge Test Location: Purge Method:

VS-10,11,12,13 and VS-14

Address:

Staff:

Alameda

Summa Canister 1000 ml

Leak Test Compound (DL of 10 µg/L): Isopropanol

Flow Control Orifice (ml/min):

100 ml/min

Date: 8/16/07

Tubing Size (in):

1/4" ID; 3/8" OD

Bore Hole Dia. (in): 3/8" OD

Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	Bore Hole Radius (Inches)		- 1		No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	•	1. '7	Max. Purge rate (ml/min)	Est. Purge Time (min)	Probe Depth (Feet)
0.085 Notes:	0.007	0.5	6	2.232	0.4	0.160	0.5	4.119	48	16.387	200	1000	100	2.00	0.5

Purge volume for tubing can be calculated as follows:

Dan Birch

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

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

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

Total purge volume can be calculated as follows:

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

Estimated purge time can be calculated as follows:

total purge volume (ml) + purge rate (max of 100 ml/min)

-1 J		Pingli	irik Car	eollmy Dy	172			7.1	Large tes	r Fleit Baja			90/18/14/16		ale
Sub slab Probe Number	(24 hr)	Time Stop Purging (24 hr)	Initial Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged (ml)	Time Start Sampling (24 hr)	Time Stop Sampling On C-O-C (24 hr)	Final Vacuum Gauge Reading (Hg")	Initial probe concentration (PPMV)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start/Stop Time	Shroud Iso- Propanol Tedlar Bag Sample/Time	Probe Install Date	Probe Install Time	Required Purge Volume	Probe Depth (Feet)
VS-10	1046	1049	-30	300	1050	1107	-6	NM	Pass	1038/1046	NONE	8/1/07	2040	200	0.2
Notes: (N	<i>larkite</i>	:Hen)	ALCOHO	LPPMI	1 -2 10	46,41	7) 1051	7,39.25 11	053,42	1,1055,	51.7. 11	00,666	1103	,7146	PMV
VS-11	1155	1158	-30	300	1158	1214	-5	NM	Pass	11 44/154	None	8/1/07	2/10	700	A-C
Notes:	Sin Hg	PU158, W	\ddle	Location	n in R	/ _v . tza	156,3	6.1 PPMV	1159,4	14-4 PPMV	; 1206,	661 PPMI	1:1210	70:2	2
VS-12	1128	1130	-30		1130	1139	-5	NM		111/1121		8/1/07	7 200		
Notes: Λ	ear doo	اللولم ب	1130,	24.18	PMJ; 11	33,37	1 PD MI	1,1136,	42-2 PF		,,,,,	1.2 PPW			
VS-13	1315	1318	-30	300	1318	1338	-5	NM	Pass	1364/1314		7/31/07	1230	১৩০	0.5
Notes:	1320,	42-7	, 13	23,	37.8)	132	-5,40	2.6 13	28, 33	"	31,31.0		32		2.0
VS-14	1355	1358	-30	300	1358	1418	-5		<u> </u>	(314 / 1324			(320	200	0.5
Notes:	358, V	1.50;	1400	15-61	; /	403,	4-217	1404,		1405 16		09, 29.			

910 Mesa Grande Road

Aptos, California P: 831.685.1217

FIELD DATA SHEET

F: 831.685.1219 Seamay Client: 03-004-006 Project #: Job Address: 6 490 Algmesa Date: Weather Conditions: Personnel: Equipment at Site: Arrival Time: Departure Time: FIELD NOTES 131/07 0800 630

Signature

Trinity Source Group, Inc. 910 Mesa Grande Road	Page of
Aptos, California P: 831.685.1217 F: 831.685.1219	FIELD DATA SHEET
Client: TIMBUR ALL PROPUTUS Job Address: PACIFIC AVE ALAMION Weather Conditions: Cloav, Dark Equipment at Site: Arrival Time: Departure Time:	Project #: 103,004000 (Date: 8/1/07 W(V) Personnel: DAN BLRCH
1700 LOAD + BUILD SURPI	obes
1945 Allive + prepare	
2015 ENTIR Chinese Scatopo	Destaurant
start on proper 15-13	2 and IC-11
while restaurant diners	eat in our
of St St US-10	the stage
2215 Install US-10 aptu	dinner rush.
2230 leave site	2,030,2
2330 Bach.	
	· · · · · · · · · · · · · · · · · · ·

Signature

ATTACHMENT D

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- · Laboratory Narrative;
- · Results; and
- Chain of Custody (copy).



WORK ORDER #: 0708342A

Work Order Summary

CLIENT:

Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road

Aptos, CA 95003

BILL TO: Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road Aptos, CA 95003

PHONE:

831-685-1217

P.O. #

103-004-010

FAX:

DATE RECEIVED:

08/17/2007

PROJECT #

Searway Property Pacific Ave

DATE COMPLETED:

08/29/2007

CONTACT:

Kyle Vagadori

Modified TO-15	6.0 "Hg 5.0 "Hg 5.0 "Hg 5.0 "Hg 4.0 "Hg NA NA NA
	Modified TO-15 Modified TO-15 Modified TO-15 Modified TO-15 Modified TO-15

CERTIFIED BY:

Sinde d. Fruman

08/29/07 DATE:

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 Trinity Source Group Workorder# 0708342A



Five 1 Liter Summa Canister samples were received on August 17, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	ATE magications = 30% Difference with two allowed out up to </=40%.;</p flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.



- U Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- rl-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VS-14 Lab ID#: 0708342A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	4.7	6.6	11	16
Tetrachloroethene	1.2	3.7	7.9	25



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VS-10

Lab ID#: 0708342A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 11	1.3	3.6	7.1	
Tetrachloroethene	1.3	4.7	8.6	20 32

Client Sample ID: VS-11

Lab ID#: 0708342A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.8	47	······································	
Acetone	4.8		9.1	89
2-Propanol		12	11	27
• = -	4.8	110	12	270
Chloroform	1.2	6.0	5.9	
1,1,1-Trichloroethane	1.2	1.4	· -	29
Carbon Tetrachloride	1.2		6.6	7.6
Tetrachioroethene		130	7.6	810
renacino detriene	1.2	460	8.2	3100

Client Sample ID: VS-12

Lab ID#: 0708342A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.8	20		
Chloroform	1,2		9.1	37
Carbon Tetrachloride		1.3	5.9	6.5
	1.2	2.1	7.6	13
Tetrachloroethene	1.2	27	8.2	180
1,2,4-Trimethylbenzene	1.2	4.8		* =
		7.0	5.9	23

Client Sample ID: VS-13

Lab ID#: 0708342A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 11	4.8	19		
Acetone	19		27	100
2-Propanol	_	44	46	100
	19	9800 E	48	24000 E
2-Butanone (Methyl Ethyl Ketone)	4.8	6.9	14	
m,p-Xylene	4.8	7.0		20
		7.0	21	30



Client Sample ID: VS-10 Lab ID#: 0708342A-01A

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	A Committee of the Comm			. Tradition of the state of the
Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
——————————————————————————————————————	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	3.6	7.1	20
Ethanol	5.1	Not Detected	9.5	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	Not Detected	12	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	Not Detected	3.9	Not Detected
3-Chloropropene	5.1	Not Detected	16	
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5. <i>1</i> 5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected		Not Detected
1,1,1-Trichloroethane	1.3	Not Detected Not Detected	6.2	Not Detected
Cyclohexane	1.3	Not Detected	6.9	Not Detected
Carbon Tetrachloride	1.3	Not Detected	4.4	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	8.0	Not Detected
Benzene	1.3	Not Detected	5.9	Not Detected
,2-Dichloroethane	1.3	Not Detected	4.0	Not Detected
leptane	1.3	Not Detected	5.1	Not Detected
richloroethene	1.3		5.2	Not Detected
,2-Dichloropropane	1.3	Not Detected	6.8	Not Detected
,4-Dioxane	5.1	Not Detected	5.8	Not Detected
romodichloromethane	1.3	Not Detected	18	Not Detected
is-1,3-Dichloropropene	1.3	Not Detected	8.5	Not Detected
-Methyl-2-pentanone		Not Detected	5.7	Not Detected
oluene	1.3	Not Detected	5.2	Not Detected
ans-1,3-Dichloropropene	1.3	Not Detected	4.8	Not Detected
- 14 Promoroproperie	1.3	Not Detected	5.7	Not Detected



Client Sample ID: VS-10 Lab ID#: 0708342A-01A

	MODITIED EPA METHUD TO-15 GC/MS FULL SCAN				
Frankling kan best at the					
Aprile Section 19			· National American		
	Rpt. Limit	Amazon 6		Mar / 12 Feb. 15	
Compound	(ppbv)	Amount (ppbv)	Rpt. Limit	Amount	
1,1,2-Trichloroethane	1,3		(uG/m3)	(uG/m3)	
Tetrachloroethene	1.3	Not Detected	6.9	Not Detected	
2-Hexanone	1.3 5.1	4.7	8.6	32	
Dibromochloromethane	5. r 1.3	Not Detected	21	Not Detected	
1,2-Dibromoethane (EDB)		Not Detected	11	Not Detected	
Chlorobenzene	1.3	Not Detected	9.7	Not Detected	
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected	
m,p-Xylene	1.3	Not Detected	5.5	Not Detected	
o-Xylene	1.3	Not Detected	5.5	Not Detected	
Styrene	1.3	Not Detected	5.5	Not Detected	
Bromoform	1.3	Not Detected	5.4	Not Detected	
Cumene	1.3	Not Detected	13	Not Detected	
	1.3	Not Detected	6.2	Not Detected	
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected	
Propylbenzene	1.3	Not Detected	6.2	Not Detected	
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected	
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected	
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected	
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected	
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected	
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected	
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected	
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected	
Hexachlorobutadiene	5.1	Not Detected	54		
Contail -		20100100	J4	Not Detected	
Container Type: 1 Liter Summa C	anister				
Surrogates				Method	
		%Recovery		Limits	
Toluene-d8		100		70-130	
1,2-Dichloroethane-d4		95		70-130	
4-Bromofluorobenzene		101		70-130	
				10-130	

Surrogates	%Recovery	Method Limits
Toluene-d8 1,2-Dichloroethane-d4	100 95	70-130
4-Bromofluorobenzene	101	70-130 70-130



Client Sample ID: VS-11 Lab ID#: 0708342A-02A

	Education of the second			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1,2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected Not Detected
Bromomethane	1.2	Not Detected	4.7	
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	47	9.1	Not Detected
Freon 113	1.2	Not Detected	9.3	89
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	12	4.6	Not Detected
2-Propanol	4.8	110	12	27
Carbon Disulfide	1.2	Not Detected	3.8	270
3-Chloropropene	4.8	Not Detected	3.6 15	Not Detected
Methylene Chloride	1.2	Not Detected		Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
rans-1,2-Dichloroethene	1.2	Not Detected	4.4	Not Detected
Hexane	1.2	Not Detected	4.8	Not Detected
1,1-Dichloroethane	1.2	Not Detected Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2		4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	3.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	3.6	Not Detected
l,1,1-Trichloroethane	1.2	6.0	5.9	29
Cyclohexane	1.2	1.4	6.6	7.6
Carbon Tetrachloride	1.2	Not Detected	4.2	Not Detected
2,2,4-Trimethylpentane	1.2	130	7.6	810
Benzene	1.2	Not Detected	5.6	Not Detected
,2-Dichloroethane	1.2	Not Detected	3.9	Not Detected
leptane		Not Detected	4.9	Not Detected
richloroethene	1.2	Not Detected	5.0	Not Detected
,2-Dichloropropane	1.2	Not Detected	6.5	Not Detected
,4-Dioxane	1.2	Not Detected	5.6	Not Detected
romodichloromethane	4.8	Not Detected	17	Not Detected
is-1,3-Dichloropropene	1.2	Not Detected	8.1	Not Detected
-Methyl-2-pentanone	1.2	Not Detected	5.5	Not Detected
Oluene	1.2	Not Detected	5.0	Not Detected
ans-1,3-Dichloropropene	1.2	Not Detected	4.6	Not Detected
чно т,о- <i>рт</i> ыногоргорепе	1.2	Not Detected	5.5	Not Detected



Client Sample ID: VS-11 Lab ID#: 0708342A-02A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	460	8.2	3100
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
3romoform Stromoform S	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
^o ropylbenzene	1.2	Not Detected	5.9	Not Detected
I-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
,3,5-Trimethylbenzene	1,2	Not Detected	5.9	Not Detected
,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
,4-Dichlorobenzene	1.2	Not Detected	7.3 7.3	Not Detected
lipha-Chlorotoluene	1.2	Not Detected	7.3 6.3	Not Detected
,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
,2,4-Trichlorobenzene	4.8	Not Detected	,	Not Detected
lexachlorobutadiene	4.8	Not Detected	36	Not Detected
Container Type: 1 Liter Summa Caniste		HOLDERCIED	52	Not Detected
urrogates		%Recovery		Method
oluene-d8		102		Limits
,2-Dichloroethane-d4		99		70-130
-Bromofluorobenzene		99 94		70-130
		94		70-130



Client Sample ID: VS-12 Lab ID#: 0708342A-03A

	1996 (2003) 1997 (2003) 1997 (2003)		Seller of April 1998 Seller of April 1998	
Compound	Rpt. Limit (ppbv)	Amount	Rpt. Limit	Amount
Freon 12	<u>(ррву)</u>	(ppbv)	(uG/m3)	(uG/m3)
Freon 114	1.2 1.2	Not Detected	6.0	Not Detected
Chloromethane	1.2 4.8	Not Detected	8.4	Not Detected
Vinyl Chloride	4.6 1.2	Not Detected	10	Not Detected
1,3-Butadiene		Not Detected	3.1	Not Detected
Bromomethane	1.2	Not Detected	2.7	Not Detected
Chloroethane	1.2	Not Detected	4.7	Not Detected
Freon 11	1.2	Not Detected	3.2	Not Detected
Ethanol	1.2	Not Detected	6.8	Not Detected
Freon 113	4.8	20	9.1	37
1,1-Dichloroethene	1.2	Not Detected	9.3	Not Detected
Acetone	1.2	Not Detected	4.8	Not Detected
	4.8	Not Detected	11	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	1.3	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	6.5
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	2.1	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected		13
Benzene	1.2	Not Detected	5.6	Not Detected
1,2-Dichloroethane	1.2	Not Detected	3.9	Not Detected
Heptane	1.2		4.9	Not Detected
Trichloroethene	1.2	Not Detected	5.0	Not Detected
1,2-Dichloropropane		Not Detected	6.5	Not Detected
1,4-Dioxane	1.2 4.8	Not Detected	5.6	Not Detected
Bromodichloromethane		Not Detected	17	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	8.1	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.5	Not Detected
Toluene	1.2	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	4.6	Not Detected
actio-1,o-Dictilotopropene	1.2	Not Detected	5.5	Not Detected



Client Sample ID: VS-12 Lab ID#: 0708342A-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	27	8.2	180
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1,2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2 5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5. 9 5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected		Not Detected
1,2,4-Trimethylbenzene	1.2	4.8	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	5.9	23
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	7.3	Not Detected
dexachlorobutadiene	4.8		36	Not Detected
Container Type: 1 Liter Summa Can		Not Detected	52	Not Detected
Surrogates		%Recovery		Method
Coluene-d8				Limits
,2-Dichloroethane-d4		102		70-130
-Bromofluorobenzene		101		70-130
		94		70-130

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130 70-130
4-Bromofluorobenzene	94	70-130 70-130



Client Sample ID: VS-13 Lab ID#: 0708342A-04A

TANDA TO-IS GCMB FULL SCAN				
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Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
· · · · · · · · · · · · · · · · · · ·	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	4.8	Not Detected	24	Not Detected
Freon 114	4.8	Not Detected	34	Not Detected
Chloromethane	19	Not Detected	40	Not Detected
Vinyl Chloride	4 .8	Not Detected	12	Not Detected
1,3-Butadiene	4.8	Not Detected	11	Not Detected
Bromomethane	4.8	Not Detected	19	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	4.8	19	27	100
Ethanol	19	Not Detected	36	Not Detected
Freon 113	4.8	Not Detected	37	Not Detected
1,1-Dichloroethene	4.8	Not Detected	19	Not Detected
Acetone	19	44	46	100
2-Propanol	19	9800 E	48	24000 E
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	19	Not Detected	60	Not Detected
Methylene Chloride	4.8	Not Detected	17	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	
trans-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Hexane	4.8	Not Detected	17	Not Detected
1,1-Dichloroethane	4.8	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	6.9	14	Not Detected
cis-1,2-Dichloroethene	4.8	Not Detected		20
Tetrahydrofuran	4.8	Not Detected	19 14	Not Detected
Chloroform	4.8	Not Detected	• •	Not Detected
1,1,1-Trichloroethane	4.8	Not Detected	24	Not Detected
Cyclohexane	4.8	Not Detected	26	Not Detected
Carbon Tetrachloride	4.8	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	4.8	Not Detected	30	Not Detected
Benzene	4.8	Not Detected	23	Not Detected
1,2-Dichloroethane	4.8	Not Detected	15	Not Detected
leptane	4.8		20	Not Detected
Trichloroethene	4.8	Not Detected	20	Not Detected
1,2-Dichloropropane	4.8	Not Detected	26	Not Detected
1,4-Dioxane	4.0 19	Not Detected	22	Not Detected
Bromodichloromethane	4.8	Not Detected	70	Not Detected
is-1,3-Dichloropropene	4.8	Not Detected	32	Not Detected
-Methyl-2-pentanone		Not Detected	2 2	Not Detected
oluene	4.8	Not Detected	20	Not Detected
rans-1,3-Dichloropropene	4.8	Not Detected	18	Not Detected
, or no reproperie	4.8	Not Detected	22	Not Detected



Client Sample ID: VS-13 Lab ID#: 0708342A-04A

		TO IS GEMIS FOLL.	Pepers 2011 June 1990	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	4.8	Not Detected	26	Not Detected
Tetrachloroethene	4.8	Not Detected	33	Not Detected
2-Hexanone	19	Not Detected	79	Not Detected
Dibromochloromethane	4.8	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	4.8	Not Detected	37	Not Detected
Chlorobenzene	4.8	Not Detected	22	Not Detected
Ethyl Benzene	4.8	Not Detected	21	Not Detected
m,p-Xylene	4.8	7.0	21	30
o-Xylene	4.8	Not Detected	21	Not Detected
Styrene	4.8	Not Detected	21	Not Detected
Bromoform	4.8	Not Detected	50	Not Detected
Cumene	4.8	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	4.8	Not Detected	33	Not Detected
Propylbenzene	4.8	Not Detected	24	Not Detected
4-Ethyltoluene	4.8	Not Detected	24	
1,3,5-Trimethylbenzene	4.8	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	4.8	Not Detected	24	Not Detected
1,3-Dichlorobenzene	4.8	Not Detected	29	Not Detected
1,4-Dichlorobenzene	4.8	Not Detected	29 29	Not Detected
alpha-Chlorotoluene	4.8	Not Detected	2 9 25	Not Detected
1,2-Dichlorobenzene	4.8	Not Detected		Not Detected
1,2,4-Trichlorobenzene	19	Not Detected	29	Not Detected
Hexachlorobutadiene	19	Not Detected	140	Not Detected
		Not Detected	210	Not Detected
E = Exceeds instrument calibration range).			
Container Type: 1 Liter Summa Canister	•			
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70.400

Surrogates	%Recovery	Method Limits
Toluene-d8 1,2-Dichloroethane-d4	98 112	70-130
4-Bromofluorobenzene	90	70-130 70-130



Client Sample ID: VS-14 Lab ID#: 0708342A-05A

Compound	Rpt. Limit (ppbv)	Amount	Rpt. Limit	Amount
Freon 12	1.2	(ppbv)	(uG/m3)	(uG/m3)
Freon 114	1.2	Not Detected	5.8	Not Detected
Chloromethane	4.7	Not Detected	8.1	Not Detected
Vinyl Chloride	1.2	Not Detected	9.6	Not Detected
1,3-Butadiene	1.2	Not Detected	3.0	Not Detected
Bromomethane	1.2	Not Detected	2.6	Not Detected
Chloroethane	1.2	Not Detected	4.5	Not Detected
Freon 11	1.2	Not Detected	3.1	Not Detected
Ethanol	1.2 4.7	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	8.9	Not Detected
Acetone	4.7	Not Detected	4.6	Not Detected
2-Propanol		Not Detected	11	Not Detected
Carbon Disulfide	4.7	6.6	11	16
3-Chioropropene	1.2	Not Detected	3.6	Not Detected
Methylene Chloride	4.7	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.0	Not Detected
	1.2	Not Detected	4.2	Not Detected
rans-1,2-Dichloroethene fexane	1.2	Not Detected	4.6	Not Detected
	1.2	Not Detected	4.1	Not Detected
,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
P-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
ris-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
etrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
enzene	1.2	Not Detected	3.7	Not Detected
,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
eptane	1.2	Not Detected	4.8	Not Detected
richloroethene	1.2	Not Detected	6.3	Not Detected
2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
4-Dioxane	4.7	Not Detected	17	Not Detected
romodichloromethane	1.2	Not Detected	7.8	Not Detected
s-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
oluene	1.2	Not Detected	4.4	
ans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected Not Detected



Client Sample ID: VS-14 Lab ID#: 0708342A-05A

	MODIFIED EPA METHOL	D TO-15 GC/MS FULL	SCAN	
	Refera Maria William			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	3.7	7.9	25
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5,4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Container Type: 1 Liter Summa	Canister			Hot Detected
Surrogates		%Recovery		Method
Toluene-d8		101		Limits
1,2-Dichloroethane-d4		101		70-130
4-Bromofluorobenzene		96		70-130
		90		70-130



Client Sample ID: Lab Blank Lab ID#: 0708342A-06A

MOD	ALAMA IN A WIE I HU	D 10-15 GC/MS FUI	LL SCAN	
_	Rot. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
			۷,٠	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0708342A-06A

			Antonio Programa Ada Africa	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2,3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	3.4 2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4 2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected		Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	2.4	Not Detected
1,4-Dichlorobenzene	0.50		3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	3.0	Not Detected
1,2-Dichlorobenzene		Not Detected	2.6	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.0	Not Detected
Hexachlorobutadiene	2.0	Not Detected	15	Not Detected
· ioxadinorobutaciene	2.0	Not Detected	21	Not Detected
Container Type: NA - Not Applicable				
Surrogates				Method

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: CCV Lab ID#: 0708342A-07A

Compound	%Recovery
Freon 12	· · · · · · · · · · · · · · · · · · ·
Freon 114	98
Chloromethane	128
Vinyl Chloride	93
1,3-Butadiene	105
Bromomethane	121
Chloroethane	106
Freon 11	106
Ethanol	109
Freon 113	109
1,1-Dichloroethene	114
Acetone	102
2-Propanol	92
Carbon Disulfide	99
3-Chloropropene	105
Methylene Chloride	
Methyl tert-butyl ether	96
rans-1,2-Dichloroethene	128
Hexane	102
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	106
Fetrahydrofuran	104
Chloroform	98
.1,1-Trichloroethane	103
Cyclohexane	101
Carbon Tetrachloride	112
.2.4-Trimethylpentane	100
Benzene	104
,2-Dichloroethane	97
leptane	<u> </u>
richloroethene	104
	100
,2-Dichloropropane ,4-Dioxane	101
	102
romodichloromethane	96
s-1,3-Dichloropropene	102
Methyl-2-pentanone	110
Diuene	103
ans-1,3-Dichloropropene	103



Client Sample ID: CCV Lab ID#: 0708342A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	%Recovery
1,1,2-Trichloroethane	
Tetrachloroethene	101
2-Hexanone	103
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	103
Chlorobenzene	103
Ethyl Benzene	102
	105
m,p-Xylene o-Xylene	109
-	110
Styrene	115
Bromoform	103
Cumene	108
1,1,2,2-Tetrachloroethane	99
Propylbenzene	107
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	
,3-Dichlorobenzene	108
,4-Dichlorobenzene	105
alpha-Chlorotoluene	103
,2-Dichlorobenzene	104
,2,4-Trichlorobenzene	106
lexachlorobutadiene	78
	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: LCS

Lab ID#: 0708342A-08A

Compound	%Recovery
Freon 12	93
Freon 114	99
Chloromethane	91
Vinyl Chloride	100
1,3-Butadiene	96
Bromomethane	
Chloroethane	105
Freon 11	99
Ethanol	88
Freon 113	86
1,1-Dichloroethene	99
Acetone	91
2-Propanol	88
Carbon Disulfide	85
3-Chloropropene	100
Methylene Chloride	94
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	92
Hexane	96
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	101
Tetrahydrofuran	100
Chloroform	93
1,1,1-Trichloroethane	97
Cyclohexane	91
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	90
Benzene	95
_2-Dichloroethane	95
leptane	96
Frichloroethene	101
,2-Dichloropropane	99
,4-Dioxane	99
romodichloromethane	99
is-1 3 Dighteropress	94
is-1,3-Dichloropropene	102
-Methyl-2-pentanone oluene	109
·	102
ans-1,3-Dichloropropene	99



Client Sample ID: LCS Lab ID#: 0708342A-08A

Compound		8/ D
1,1,2-Trichloroethane		%Recovery
Tetrachloroethene		100
2-Hexanone		102
Dibromochloromethane		100
1,2-Dibromoethane (EDB)		100
Chlorobenzene		102
Ethyl Benzene		101
m,p-Xylene		105
o-Xylene		110
Styrene		110
Bromoform		111
Cumene		103
1,1,2,2-Tetrachloroethane		108
Propylbenzene		100
4-Ethyltoluene		110
1,3,5-Trimethylbenzene		115
1,2,4-Trimethylbenzene		108
1,3-Dichlorobenzene		111
1,4-Dichlorobenzene		110
alpha-Chlorotoluene		110
l,2-Dichlorobenzene		111
i,2,4-Trichlorobenzene		113
dexachlorobutadiene		96
revacillotobutaciene		96
Container Type: NA - Not Applicable		
Surrogates	%Recovery	Method
oluene-d8		Limits
,2-Dichloroethane-d4	101	70-130
-Bromofluorobenzene	91	70-130
Promonuopenzene	108	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- · Laboratory Narrative;
- Results; and
- Chain of Custody (copy).



WORK ORDER #:

0708342B

Work Order Summary

CLIENT:

Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road

Aptos, CA 95003

BILL TO: Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road

Aptos, CA 95003

PHONE:

831-685-1217

P.O. #

103-004-010

FAX:

DATE RECEIVED:

08/17/2007

DATE COMPLETED:

08/28/2007

PROJECT#

Searway Property Pacific Ave

CONTACT:

Kyle Vagadori

FRACTION#	NAME	TEST	RECEIPT <u>VAC./PRES</u> .
01A	VS-14QC-ALC	Mod. Method TO-15	Tedlar Bag
02A	Lab Blank	Mod. Method TO-15	NA
03A	CCV	Mod. Method TO-15	NA
04A	LCS	Mod. Method TO-15	NA

CERTIFIED BY:

Sinds of Framer

08/28/07 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP - AJ 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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LABORATORY NARRATIVE Mod. Method TO-15 Trinity Source Group Workorder# 0708342B



One 1 Liter Tedlar Bag sample was received on August 17, 2007. The laboratory performed the analysis via Modified Method TO-15 using GC/MS in the full scan mode. The method involves direct injection of up to a 40 mL sample aliquot into a vapor management system. Following dehumidification the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.



UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED TO-15 GC/MS

Client Sample ID: VS-14QC-ALC

Lab ID#: 0708342B-01A

Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
	(ppmv)	(ppmv)	(uG/m3)	(uG/m3)
2-Propanol	0.027	4.6	65	11000



Client Sample ID: VS-14QC-ALC

Lab ID#: 0708342B-01A MODIFIED TO-15 CC/MS

	MODIFIED	***************************************		
File Name: Dil. Factor:	e081907		Date of Collection: Date of Analysis: 8/	8/16/07
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	0.027	4.6	65	11000
Container Type: 1 Liter Tedlar Bag				
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130



Client Sample ID: Lab Blank Lab ID#: 0708342B-02A

MODIFIED TO-15 GC/MS

		10-15 GC/NS		
File Name: Dil. Factor:	e081906 1,00		Data of Collection: Data of Analysis: :	
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	0.0050	Not Detected	12	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130



Client Sample ID: CCV Lab ID#: 0708342B-03A MODIFIED TO-15 GC/MS

File Name: Dil. Factor:	e081902 1:00	Date of Co Date of An	llection: NA ialysis: 8/19/07 08:54 AM
Compound			%Recovery
2-Propanol			100
Container Type: NA - Not App	olicable		
Surrogates	%Red	overy	Method Limits
Toluene-d8	10	00	70-130

70-130



Client Sample ID: LCS Lab ID#: 0708342B-04A MODIFIED TO-15 GC/MS

File Name:	002400A	Date of Collection: NA Date of Analysis: 8/19/07 09:43 AM	
Compound			%Recovery
2-Propanol	•		96
Container Type: NA - Not	Applicable		
Surrogates		%Recovery	Method Limits
Toluene-d8		99	70-130



CHAIN-OF-CUSTODY RECORD

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collection, handling, or shipping of samples, D.O.T. Hotline (800) 487-4922 Page Project Manager DAJ BIRCH Project Info: Turn Around Lab Use Only Collected by: (Print and Sign) DAN BIKK Tlme: Pressurized by PO.# 103-DO4-DID Company TRINISY SOURCE GROUP Email 49-2+591000 **Wormal** 910 Max Grande City_ ⊒ Rush Pressurization Gas: Phone 831-685-1217 685-1219 Project Name Puch AND гресту Date Time Canister Pressure/Vacuum Labil.D Field Sample LD. (Location) Can # of Collection of Collection Analyses Requested Initial Fina Receipt Final 8/16/07 7056 TO3 STORAGED SOLVENT -30 2036 7015 FULL SCAN 3087.D 35654 31756 1414 -30 TYPLAR NA ALCOHOL Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Notes: VS-14 OC-ALC RUN Relinquisheriny: (signature) Date/Time Received by: (signature) Date/I me direct inject for Accomo to3+7015 for 45-1911,12 and H. Feach commont Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Shipper Name Air Bill # Temp (°C) Condition Custody Seals Intact? Work Order # Yes No (None) 07 083422 Only



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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- · Work order Summary;
- · Laboratory Narrative;
- · Results; and
- Chain of Custody (copy).



WORK ORDER #: 0708342C

Work Order Summary

CLIENT:

Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road

Aptos, CA 95003

BILL TO: Mr. Dan Birch

Trinity Source Group

910 Mesa Grande Road

Aptos, CA 95003

PHONE:

831-685-1217

P.O. # 103-004-010

FAX:

DATE RECEIVED:

08/17/2007

PROJECT#

Searway Property Pacific Ave

DATE COMPLETED:

08/29/2007

CONTACT:

Kyle Vagadori

ED (COTON)			RECEIPT
FRACTION#	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
01A	VS-10	Modified TO-3	6.0 "Hg
02A	VS-11	Modified TO-3	5.0 "Hg
03A	VS-12	Modified TO-3	5.0 "Hg
04A	VS-13	Modified TO-3	5.0 "Hg
05A	VS-14	Modified TO-3	4.0 "Hg
06A	Lab Blank	Modified TO-3	NA
07A	CCV	Modified TO-3	NA

CERTIFIED BY:

Sinds S. Fruman

08/29/07 DATE:

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-3 Trinity Source Group Workorder# 0708342C

Five 1 Liter Summa Canister samples were received on August 17, 2007. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. See the data sheets for the reporting limit.

Requirement	TO-3	ATL Modifications
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch = 20 samples.</td
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.



- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VS-10

Lab ID#: 0708342C-01A

No Detections Were Found.

Client Sample ID: VS-11

Lab ID#: 0708342C-02A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Stoddard Solvent	0.060	0.52	350	3000	_

Client Sample ID: VS-12

Lab ID#: 0708342C-03A

Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
	(ppmv)	(ppmv)	(uG/m3)	(uG/m3)
Stoddard Solvent	0.060	0.10	350	590

Client Sample ID: VS-13

Lab ID#: 0708342C-04A

Compound	Rɒt. Limit	Amount	Rpt. Limit	Amount
	(ppmv)	(ppmv)	(uG/m3)	(uG/m3)
Stoddard Solvent	0.060	3.1	350	18000

Client Sample ID: VS-14

Lab ID#: 0708342C-05A

No Detections Were Found.



Client Sample ID: VS-10

Lab ID#: 0708342C-01A

MODIFIED	EPA METHOD	TO-3 GC/FID

File Name: Dil. Factor:	6082306 2.53		Date of Collection: 8/16/07 Date of Analysis: 8/23/07 08:58 AM		
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Stoddard Solvent	0.063	Not Detected	370	Not Detected	
Container Type: 1 Liter Sumr	na Canister				
Surrogates		%Recovery		Method Limits	
Fluorobenzene (FID)		96		75-150	



Client Sample ID: VS-11 Lab ID#: 0708342C-02A

File Name; DR. Factor;	6082307		Trate of Collections	8/16/07
Compound	Røt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Stoddard Solvent	0.060	0.52	350	3000
Container Type: 1 Liter Sumn	na Canister			
Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		96		75-150



Client Sample ID: VS-12 Lab ID#: 0708342C-03A

	WODIFIED EFA ME	/1HOD 10-3 GC/FII		
Fils Name: Dil: Factor:	6082308		Date of California	
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Stoddard Solvent	0.060	0.10	350	590
Container Type: 1 Liter Sumr	na Canister			
Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		96		75-150



Client Sample ID: VS-13 Lab ID#: 0708342C-04A

	WODINED BY A WIE			
FilaNamor	6082309 2.42			
Compound	Rɒt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Stoddard Solvent	0.060	3.1	350	18000
Container Type: 1 Liter Sumn	na Canister			
Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		98		75-150



Client Sample ID: VS-14 Lab ID#: 0708342C-05A

		THOD TO-3 GC/FID			
File Name:	6062910	1			
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Stoddard Solvent	0.058	Not Detected	340	Not Detected	
Container Type: 1 Liter Summ	a Canister				
Surrogates		%Recovery		Method Limits	
Fluorobenzene (FID)		98		75-150	



Client Sample ID: Lab Blank Lab ID#: 0708342C-06A

		ETHOD TO-S GC/FID			
File Name: Dil. Factor:	6082305a 1.00		Date of Collection: NA Date of Analysis: 8/23/07 08:32 AM		
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Stoddard Solvent	0.025	Not Detected	140	Not Detected	
Container Type: NA - Not Applica	able				
Surrogates		%Recovery		Method Limits	
Fluorobenzene (FID)		99		75-150	



Client Sample ID: CCV

Lab ID#: 0708342C-07A

MODIFIED EPA METHOD TO-3 GC/FID	
rite Name: 6082304 Date of Collection: NA	I
Districtor: 1.00 Date of Analysis: 8/23/07-07-56 Au	

Compound		%Recovery
Stoddard Solvent		79
Container Type: NA - Not Applicable		
Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150



CHAIN-OF-CUSTODY RECORD

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