

D R A F T

DRAFT FIVE-YEAR REVIEW

FORMER LUBRICATION COMPANY OF
AMERICA
12500 LANG STATION ROAD
CANYON COUNTRY, CALIFORNIA

Prepared for

Department of Toxic Substances Control
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URS Project No. 29403356

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FORMER LUBRICATION COMPANY OF AMERICA
CANYON COUNTRY, CALIFORNIA

This Five-Year Review Report for the Former Lubrication Company of America located in Canyon Country, California, was prepared by URS Corporation on behalf of the Department of Toxic Substances Control. The report was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists. This report was prepared under the technical direction of the undersigned registered professional, who can be reached at (213) 996-2200.

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As requested by the California Environmental Protection Agency Department of Toxic Substances Control (DTSC), URS has conducted a Five-Year Review of the Former Lubrication Company of America (the "Site") is located at 12500 Lang Station Road in Canyon Country, California. The Site location and Site layout is illustrated on figures 1 and 2, respectively.

The purpose of a Five-Year Review is to determine whether remedial actions performed at a site are protective of human health and environment. The methods, findings, and conclusions of reviews are documented in Five-Year Review reports. In addition, Five-Year Review reports identify issues found during the review, if any, and recommendations to address them.

The DTSC is overseeing this Five-Year Review pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) § 121, 42 United States Code (USC) Section 9621(c), and the National Contingency Plan (NCP). CERCLA § 121 states:

If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with Section 9604 (CERCLA § 104) or Section 9606 (CERCLA § 106) the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.

The United States Environmental Protection Agency (USEPA or EPA) interpreted this requirement further in the NCP, as stated in 40 CFR §300.430(f)(4)(ii):

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.

The remedial action objectives (RAOs) identified for the Site in the Remedial Action Plan (RAP; DTSC, 1999) were the following:

- Air RAOs: Protect human health and the environment by preventing release and migration of subsurface volatile organic compounds (VOCs) in the ambient air in excess of South Coast Air Quality Management District (SCAQMD) requirements.
- Soil RAOs: Prevent exposure through ingestion, inhalation, and direct contact of soil contaminated at levels that may pose a risk to human health and the environment. Minimize production and migration of contaminants from soil to air, surface water, or groundwater. Minimize erosion of contaminated soil by wind or water.
- Groundwater RAOs: Prevent exposure through ingestion, inhalation, and dermal absorption of groundwater contaminated at levels that may pose a risk to human health and the environment.

This is the first Five-Year Review for the Site. The Five-Year Review is required due to the fact that contaminants remain onsite above risk-based levels that allow for unlimited use and unrestricted exposure. Chemicals of concern include VOCs associated with petroleum

hydrocarbons such as benzene, toluene, ethylbenzene, and xylene (BTEX); chlorinated compounds such as tetrachloroethylene (PCE), trichloroethylene (TCE), and dichloroethane (DCA); and other chlorinated degradation products such as vinyl chloride.

1.1 PROJECT UNDERSTANDING AND APPROACH

The purpose of the Five-Year Review is to evaluate the implementation and performance of the remediation efforts to determine if the remedy is or will continue to be protective of human health and the environment. The Five-Year Review has been performed by URS Corporation (URS) on behalf of the DTSC utilizing Site data through September 2010.

1.2 SCOPE OF WORK

The scope of work for the Five-Year Review is summarized in the following subsections.

1.2.1 Document Review

URS reviewed available data and reports from the last five years, including but not limited to, operation and maintenance (O&M) reports, agency correspondence, and readily available electronic laboratory data that document remedy performance at the Site in accordance with the USEPA Five-Year Review Guidance Document. The following documents were reviewed:

- Supplemental Remedial Investigation/Feasibility Study (Woodward-Clyde, 1999)
- Remedial Action Plan (DTSC, 1999)
- USEPA, *Comprehensive Five-Year Review Guidance* dated June 2001 (Guidance Document; USEPA, 2001)
- Tank Removal Report (Tetra Tech, 2002)
- Cap Installation Completion Report (Tetra Tech, 2004)
- SVE System Final Design Report (Tetra Tech, 2004)
- SVE System Installation and Start Up Report (URS, 2009)
- SVE System Operation Reports (URS, 2008-2010).

1.2.2 Notification

Potentially interested members of the community were notified prior to commencing the Five-Year Review in accordance with the Guidance Document. For purposes of this Five-Year Review, the community was assumed to include DTSC. URS assumed that residential notification was not required since the area is isolated and primarily rural/industrial.

1.2.3 Site Inspection

The Site was inspected as required by the Five-Year Review process. The selected remedy for the Site is a pavement cap and soil vapor extraction (SVE) system. Hence, the Site inspection focused on the integrity of the pavement cap and operation of the SVE system.

1.2.4 Interviews

Interviews regarding the historical performance of the pavement cap and SVE system were not deemed necessary for this Five-Year Review.

1.2.5 Five-Year Assessment

A technical assessment of remedy effectiveness was completed in accordance with Section 4.0 of the Guidance Document. The purpose of the technical assessment is to examine the following questions:

- Is the remedy functioning as intended by the decision documents?
- Are the exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy selection still valid?
- Has any other information come to light that could call into question the protectiveness of the remedy?

The answers to these questions were used to organize and evaluate data and information and ensure that all relevant issues were considered when assessing the protectiveness of the remedy.

1.2.6 Report

Results of the Five-Year Review have been summarized in this report in general conformance with Section 3.6 of the Guidance Document.

The following table lists the chronology of significant events at the Site.

Event	Dates
DTSC issued Remedial Action Order (Docket # HAS 86/87-02 RA), requiring site characterization and remediation	March 16, 1987
Removal action: removal and disposal of contents of 61 tanks	1989-1992
Imminent and Substantial Endangerment Determination for the Lubrication Company of America (Docket # ISE 90/91-001)	September 27, 1990
Soil sampling as part of Remedial Investigations and Feasibility Study Report (LETTRO JV)	June 25, 1992
One groundwater monitoring well (MW-1) installed as part of Groundwater Monitoring Well Installation and Sampling Report (Bryan A. Stirrat & Associates, Inc.)	September 12, 1995
Final Supplemental Remedial Investigation/Feasibility Study Work Plan (Woodward-Clyde)	January 15, 1998
Five soil gas (SG-1 through SG-5) and three groundwater monitoring wells (MW-2 through MW-4) installed as part of Supplemental Remedial Investigation/Feasibility Study (Woodward-Clyde, March 5, 1999)	March-April 1998
Remedial Action Plan (DTSC)	April 1999
Aboveground structures removed, on-site tanks cleaned and recycled, asbestos containing materials and lead removed from infrastructure	2001
Site graded, engineered remedial cap installed – Cap Installation Completion Report (Tetra Tech, May 2004)	March 13-May 13, 2003
SVE pilot test (Tetra Tech)	December 11, 2003
SVE and Treatment System Design Report (Tetra Tech, Inc.)	October 19, 2004
Eleven (11) soil vapor extraction wells installed at the Site (URS)	December 12-15, 2005
One soil gas well installed at the Site (URS)	December 15, 2005
SVE system equipment installed, including two VPGAC vessels and two potassium permanganate-impregnated media vessels. (URS)	April 2006-November 2007
Operation of SVE system, and weekly operation and maintenance Site visits during operation	November 2007-Present
SVE System Installation and Start Up Report (URS)	June 11, 2009

3.1 PHYSICAL CHARACTERISTICS

The Former Lubrication Company of America Site is a 4-acre parcel that was used as an oil processing and recycling facility located in Canyon Country, California. The Site has no adjacent residential properties. The nearest residential area is approximately 0.4 mile to the northwest of the Site, and additional residential areas are approximately two miles to the west. The Angeles National Forest is south of the Site. The Site is currently a vacant lot.

3.2 LAND AND RESOURCE USE

The Lubrication Company of America received, stored, and processed waste oils between 1956 until 1989. Waste oil was transported to the Site by rails and tanker trucks and reclaimed by adding sulfur monochloride and sulfuric acid to precipitate metals contained in the waste oils. Cutting oils produced through this process were then skimmed off the top, treated with acid, and sold. Byproducts of the recycling processes conducted at this Site included lard oil, active and inactive sulfur, sulfur monochloride, pale oil, and acidic liquids.

The current and future land use designation of the Site is industrial. An engineered asphalt cap covers the entire Site with an underlying geosynthetic clay liner (GCL). The Site was redeveloped in 2007 for use as additional space for the adjacent SSA Terminal. The redevelopment included new asphalt pavement over much of the parcel and installation of paved truck ramps to support the storage of flat-bed truck trailers that are used to transport containers. The Site is currently used for the storage of flat-bed truck trailers and transport containers.

3.2.1 Surface Water

Surface waters in the vicinity of the Site include the Santa Clara River north of the Site and rock quarry operations to the west and southwest.

3.2.2 Site Geology/Hydrogeology

Soils underlying the Site generally consist of gravels, coarse-grained sand, silty sand, and clayey sand (Woodward-Clyde, 1999). Generally, interbedded gravels and sands are found in the northern portion of the Site, while the southern portion of the Site is mainly interbedded sand to clayey sand.

Three groundwater monitoring wells were installed in 1999 (Woodward-Clyde, 1999). During that time, groundwater was encountered at the Site at depths of 35 to 37 feet below ground surface (bgs). Any wells at the Site could become dry, however, especially in drought conditions, such as the one experienced during the remedial investigation (LETTRO JV, 1992). The groundwater table can be deeper than 70 feet bgs during a drought (LETTRO JV, 1992). Woodward-Clyde (1999) reported that groundwater flows to the northwest with a gradient of 0.007 feet/foot.

3.3 HISTORY OF CONTAMINATION

During its operation from 1956 to 1989, the waste oil recycling facility received, stored, and processed/reclaimed waste oils. From November 1980 to March 1986, DTSC inspectors observed releases or threatened releases at the Site, and confirmed these releases by conducting

soil and water sampling. Additionally, DTSC inspectors noted various violations of the Interim Status Document (ISD), a temporary permit to operate a hazardous waste facility. DTSC issued a Notice of Violation and Schedule of Compliance to the facility in November 1986 and a Remedial Action Order in March 1987. DTSC issued a Notice of Final Determination of Non-Compliance in October 1987.

3.4 INITIAL RESPONSE

DTSC performed a removal action at the Site between 1989 and 1992. DTSC removed waste from 61 aboveground tanks, disposed of 358 drums containing waste, and removed all asbestos containing material from the Site.

3.5 SUMMARY OF BASIS FOR TAKING ACTION

Releases of hazardous substances during waste oil recycling operations at the Site posed a risk to human health and the environment and formed the basis for DTSC taking action. DTSC completed a remedial investigation in 1992. The RI revealed extensive contamination, including petroleum hydrocarbons and aliphatic oils, VOCs (ethylbenzene, toluene, xylenes), volatile halogenated organics [1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA), TCE, PCE), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), lead, and acids. Concentrations in soil were detected to a depth of 70 feet bgs. High concentrations in soil gas were detected in the northeastern portion of the Site. VOCs were detected in groundwater beneath the Site. On-site groundwater monitoring wells adjacent to the waste showed VOC concentrations above Maximum Contaminant Levels (MCLs), although testing of downgradient groundwater monitoring wells did not reveal any contamination.

The groundwater investigation conducted in 1995 revealed elevated concentrations of VOCs. DTSC determined that an additional groundwater and soil gas investigation was necessary to define the full extent of contamination. DTSC completed a supplemental remedial investigation in 1998. Between March and June 1998, DTSC installed four groundwater monitoring wells (three on Site, one downgradient/off Site) and five multi-level soil gas monitoring wells on Site. Sampling conducted in July 1998 revealed high VOC concentrations in soil gas in the northeastern portion of the Site and VOCs in groundwater beneath the Site.

4.1 REMEDY SELECTION

The Site was investigated to determine the extent of contamination. Based on results of the remedial investigations, a RAP was developed (DTSC, 1999). The RAOs identified for the Site were:

- Air RAOs: Protect human health and the environment by preventing release and migration of subsurface VOCs in the ambient air in excess of South Coast Air Quality Management District (SCAQMD) requirements.
- Soil RAOs: Prevent exposure through ingestion, inhalation, and direct contact of soil contaminated at levels that may pose a risk to human health and the environment. Minimize production and migration of contaminants from soil to air, surface water, or groundwater. Minimize erosion of contaminated soil by wind or water.
- Groundwater RAOs: Prevent exposure through ingestion, inhalation, and dermal adsorption of groundwater contaminated at levels that may pose a risk to human health and the environment.

The remedy was selected based on nine evaluation criteria specified in the NCP, including overall protection of human health and the environment; compliance with state and federal requirements; long-term effectiveness and permanence; reduction of toxicity, mobility, and volume through treatment; cost (30-year present worth); short-term effectiveness; implementability; regulatory agency acceptance; and community acceptance.

The remedy selected was Alternative 6 in the RAP which consisted of the following:

- Dismantle on-site structures
- Excavate and dispose of contaminated off-site soil in the railroad spur area
- Backfill to grade
- Cap the on-site soil
- Construct and operate an SVE system
- Perform groundwater monitoring
- Treat groundwater using air sparging
- Conduct bioventing in conjunction with SVE to enhance biodegradation of heavy end hydrocarbons in soil.

The selected remedy was determined to be protective of human health and the environment, and compliant with ARARs. The remedial actions would reduce toxicity or volume of contaminants, as well as prevent/minimize off-site migration in soil gas and groundwater. Cleanup goals as established in the RAP are presented in Appendix A.

4.2 REMEDY IMPLEMENTATION

This section provides a summary of the remediation implementation activities conducted at the site since submittal of the RAP.

4.2.1 Site Demolition and Waste Disposal

The initial remedy implementation activities consisting of site demolition and waste disposal began in January 24, 2001 and were completed on July 27, 2001. These scope of work associated with these activities is summarized below and presented in the RACR (Tetra Tech, 2002).

- Asbestos Abatement
- Lead Paint Mitigation.
- Process Piping Removal
- Process Tank Cleaning
- Tank Recycling
- Waste Disposal
- Site Cleanup
- Building Demolition
- Vehicle and Tire Removal
- Surface Soil Survey.
- Fence Installation
- Site Grading

4.2.2 Engineered Cap

During 2003, an engineered cap was installed at the Site (Tetra Tech, 2004). The cap consisted of the placement of a 4-inch thick layer of imported sand over compacted soil, installation of a geosynthetic clay liner (GCL), placement and compaction of a 12-inch thick layer of sand and a 4-inch thick layer of aggregate base gravel, followed by a final layer of asphalt concrete pavement.

4.2.3 Soil Vapor Extraction

During 2005 through 2007, a SVE system was installed and began operation at the Site (URS, 2009). The remedial system consists of eleven vapor extraction wells (SVE-1A and SVE-2 through SVE-11), aboveground vapor extraction conveyance pipe, two 5,000 pounds of vapor phase granular activated carbon (GAC) vessels, and two 10,700 pounds of potassium permanganate-impregnated vessels, and 1,200 cfm regenerative blower (50 hp). The SVE system extracts volatile organic vapors from the vadose zone present in the subsurface between 10 and 50 feet bgs. The target compounds are VOCs including chlorinated compounds and petroleum hydrocarbons. The SVE system operates under the revised SCAQMD Permit to Operate No. F92744.

As part of the remedial system installation activities, one new soil gas well was installed in the south eastern portion of the site. Well construction details for the SVE and soil gas wells are presented in Table 1.

4.2.4 Groundwater Monitoring

Groundwater monitoring has not been conducted at the site since 1998.

4.2.5 Air Sparge and Bioventing

To date, neither air sparging (AS) or bioventing has been conducted at the Site.

4.3 OPERATION AND MAINTENANCE (O&M)

This section provides a summary of the operation and maintenance activities conducted at the Site to maintain the engineered cap and the SVE system.

4.3.1 Engineered Cap

During the monthly site visit for the SVE system, the engineered cap is inspected by field staff to ensure cap integrity. On occasion, weed growth is present at various areas at the site and surface cracks are observed. Site maintenance includes weed abatement and applying sealant to surface cracks.

4.3.2 SVE System

O&M monitoring has been underway since the SVE system began operation in 2006. Weekly site visits are conducted to determine compliance with the site-specific SCAQMD permit. The remedial system generally operates during the day for 6 to 8 hours due to the effects of high humidity, ranging between 90 and 100 percent, in the vapor stream on the GAC media. The influent process stream humidity is diluted down to approximately 65 percent during the day to increase the life of the GAC using ambient air. The effects of high RH in the vapor stream can be a significant reduction in the life cycle of the GAC media as water acts like as a contaminant and competes for pore space on the adsorbent media.

During quarterly site visits, preventative maintenance is conducted on the SVE equipment to ensure proper operation and minimize equipment repair/replacement costs. Maintenance activities include inspection of equipment, blower motor oil changeout, air filter inspection and as needed replacement, and inspection of site gauges and instrumentation.

This is the first Five-Year Review for the Site. As such, progress since the last review cannot be evaluated. However, semi-annual O&M reports have been completed since the SVE system began operation in 2006 to document remedial progress. This section includes a discussion of remedial system operation and performance through the semi-annual reporting period ending June 2012.

5.1 SYSTEM PERFORMANCE

Remedial system performance through the June 2012 reporting period is summarized below.

5.1.1 Operational Parameters

Based on O&M data as of June 26, 2012, the SVE system has operated for 9,684 hours. As previously mentioned, the remedial system generally operates during the day for 6 to 8 hours due to the effects of high humidity in the vapor stream. System flow rates ranged from 464 to 751.4 SCFM, with an average of approximately 651 SCFM. Vapor flow rate from the well field ranged from 111 SCFM to 440.9 SCFM, with an average flow rate of 370 SCFM. System field data is presented in Appendix B.

5.1.2 Well Field Configuration

Initially, all eleven (11) SVE wells (SVE-1A and SVE-2 through SVE-11) were open during the initial remedial system startup testing period. Thereafter, specific wells were closed and others were opened to balance individual well flow rates and optimize remedial system performance. As of May, 2012, open SVE wells included SVE-8, SVE-9, SVE-10, and SVE-11 and all other wells were closed to focus remedial efforts in the central portion of the Site.

5.1.3 Well Field Concentrations

Vinyl chloride, 1,1-DCA, 1-2 dichloroethane, and methylene chloride concentrations, as measured from the well field, have shown an overall decline with continued operation of the SVE system. Vinyl chloride, 1,1-DCA, 1-2 dichloroethane, and methylene chloride concentrations were initially 66,000 ppbv, 2,900 ppbv, 31 ppbv, and 170 ppbv, respectively, as measured on May 12, 2006. These compounds have since declined to non-detect.

PCE and TCE concentrations, as measured from the well field, increased after startup of the SVE system. The maximum PCE concentration was 620 ppbv on February 14, 2012 and the maximum TCE concentration was 2,200 ppbv on April 26, 2007. PCE and TCE have since declined to non-detect.

Benzene concentrations, as measured from the well field, were erratic from startup of the SVE system. Initially, benzene concentrations were 710 ppbv as measured on May 12, 2006 and then either declined to levels below the initial concentration detected at start up or increased to new

maximum concentrations (800 ppbv on February 7, 2007 and 790 ppbv on February 19, 2008). As of June 26th, 2012, benzene has declined to non-detect and has shown an overall decline in concentration.

C₂ through C₆₊ concentrations, as measured from the well field, are declining with continued operation of the SVE system. C₂ through C₆₊ concentrations were initially 603 ppmv as measured on May 12, 2006, then increased to 886 ppmv on February 19, 2008 and then declined to 139 ppmv as measured on December 20, 2011. On May 22, 2012, SVE-8, SVE-9, SVE-10, and SV-11 were opened and all other wells were closed. This well field configuration change has caused an increase in the concentration of C₂ through C₆₊.

Methane concentration, as measured from the well field, has declined with continued operation of the SVE system. Methane concentration was initially 37,000 ppmv and then increased to 49,000 ppmv as measured on May 12, 2006 and February 12, 2007, respectively. Methane has since declined to 250 ppmv as measured on June 26, 2012.

Time series plots illustrating the change in concentrations with time are presented as Figures 4 through 12. Laboratory analytical data is summarized in Appendix B.

5.2 MASS REMOVAL

A summary of the mass removal for C₂ through C₆₊ and select VOCs including benzene, 1,1-DCA, 1,2-dichloroethane, methylene chloride, PCE, TCE, and vinyl chloride presented in the table below. This data captures the mass removal since system startup through June 2012.

Compounds	Cumulative Mass Removed (pounds)
C ₂ through C ₆₊	16,764.51
Benzene	8.72
1,1-DCA	12.84
1,2-dichloroethane	1.50
Methylene Chloride	1.43
Tetrachloroethene	9.90
TCE	36.66
Vinyl Chloride	32.14

Mass removal for the SVE system is summarized in Figures 13 and 14 and Appendix B. Figures 13 and 14 continued mass removal of VOCs and carbon chains, with some constituents beginning to approach asymptotic levels.

6.1 ADMINISTRATIVE COMPONENTS

The Five-Year Review consisted of the following components:

- Community Involvement
- Document Review
- Data Review
- Site Inspection
- Local Interviews
- Five-Year Review Report Development and Review.

6.2 COMMUNITY NOTIFICATION AND INVOLVEMENT

The DTSC requested that a Five-Year Review be conducted for this Site. Since the area is isolated and primarily industrial, community notification was not conducted.

6.3 DOCUMENT REVIEW

The SVE System Operation Reports for the past five years were reviewed, as well as other relevant reports, including the following:

- Remedial Investigation/Feasibility Study (RI/FS) (LETTRO JV, 1992)
- Supplemental RI/FS (Woodward-Clyde, 1999)
- RAP (DTSC, 1999)
- Tank Removal Report (Tetra Tech, 2002)
- Cap Installation Completion Report (Tetra Tech, 2004)
- SVE System Final Design Report (Tetra Tech, 2004)
- SVE System Installation and Start Up Report (URS, 2009).

6.4 DATA REVIEW

This data review section discusses recent data collected since implementation of the RAP. Where applicable, the recent data is compared to the available historical data and Site specific cleanup goals.

6.4.1 Soil

There have been no Site investigations conducted since 1992. Therefore, no recent soil data has been collected since the implementation of the RAP. A summary of historical soil analytical data collected from the Site is presented in Appendix C.

6.4.2 Soil Gas

In July 1998, soil gas samples were collected from five (5) triple-nested soil gas wells SG-1 through SG-5. All of the soil gas samples were analyzed for VOCs, methane, and fixed gases. A second soil gas sampling event was conducted in March 2010 from soil gas wells SG-1 through SG-4, and SG-6 to evaluate remedial progress. All soil gas samples were analyzed for VOCs and carbon chains (C₄-C₁₂). Soil gas samples were not collected from SG-5 due the presence of water during purging of the 5 feet and 30 feet screened intervals and damage of the 20 feet screened interval. A summary of soil gas data from the two sampling events is included in Tables 2 and 3. A comparison of the two soil gas sampling events is presented below.

- Soil Gas Wells SG-1 and SG-2: The highest VOC compounds were detected in wells SG-1 and SG-2 during both sampling events. These wells are located in the northeastern portion of the Site. A comparison of VOC compounds indicates most constituents decreased an order of magnitude between the two sampling events. Substantial decreases were observed in the following compounds: TCE, 1,1-DCA, cis-1,2-dichloroethene (cis-1,2-DCE), trans 1,2-dichloroethene, toluene, 1,1,1-TCA, Freon 113, and vinyl chloride. Only three compounds (trichloroethene, cis 1,2-dichloroethene, and vinyl chloride) detected during the 2012 sampling event exceeded the Site soil gas preliminary cleanup goals of 4.6 ug/l, 70.1 ug/l, and 3, ug/l, respectively.
- Soil Gas Wells SG-3 and SG-4: In 1998, the only VOC detected in well SG-3 was 1,1-DCA (1.8 µg/L in SG-4 at 33 feet bgs), This concentration was well below the Site soil gas preliminary cleanup goal of 2876.2 ug/l. In 2010, all VOCs compounds were non-detect in wells SG-3 and SG-4.
- Soil Gas Well SG-6: In 2010, the only VOC detected in well SG-6 was TCE detected (0.87 µg/L at 7 feet bgs and 0.67 µg/L at 15 feet bgs). These concentrations are well below the Site soil gas preliminary cleanup goal of 4.6 ug/l.

Since the development of the RAP, the Office of Environmental Health Hazard Assessment (OEHHA, 2010) published soil gas California Human Health Screening Levels (CHHSLs) for two types of soils (base soil and engineered fill). For the purposes of this assessment, the base soil CHHSLs for residential and commercial receptors were used for screening. A comparison of soil gas CHHSLs for the 2010 data is performed in Table 4. Exceedances were noted for both commercial and residential settings for benzene, ethylbenzene, TCE, cis-1,2-DCE, PCE, and vinyl chloride. Detection limits were not always below their corresponding CHHSLs, which creates uncertainty in this evaluation.

For those chemicals exceeding CHHSLs in 2010 and where sampling locations were the same in 1998, a comparison of 2010 soil gas levels to 1998 soil gas levels was performed in Table 3. Significant decreases in soil gas concentrations were noted for vinyl chloride, TCE and cis-1,2-Dichloroethylene (cis-1,2-DCE) and at most sampling points. Less dramatic decreases in concentration were noted for PCE, benzene and ethylbenzene. As was noted in 1998, the highest concentrations of VOCs were found in SG-1 and SG-2 which are located in the northeastern portion of the site. Location SG-5, near the north site boundary, was not resampled in 2010 and had a vinyl chloride soil gas concentration of 81 ug/L at 25 feet in 1998. Although dramatic reductions in vinyl chloride concentrations were noted in SG-1 in 2010, which is located

approximately 80 feet to the south of SG-5, it is not known what the current concentration of vinyl chloride is at SG-5. However, since the shallow depths at SG-5 did not contain detectable vinyl chloride and there are no buildings in the area, this data gap is not considered significant.

6.4.3 Groundwater

Groundwater sampling at the Site has not been conducted since July 1998. Therefore, no recent groundwater data has been collected since the implementation of the RAP. A summary of historical groundwater analytical data collected from the Site is presented in Appendix C.

6.5 SITE INSPECTION

A Site visit for deed restrictions was conducted on February 25, 2010. The cap was deemed to be in very good condition with no disturbance. The SVE system was intact and not disturbed, but not operating at the time of the Site visit. The fence was also observed to be intact. The Site Visit Form is included in Appendix E.

6.6 INTERVIEWS

Interviews were not conducted during this Five-Year Review.

The purpose of the technical assessment is to examine the remedy function, exposure assumptions, toxicity data, cleanup levels, and remedial action objectives, and determine if any changes to the remedy are required. Discussions of the relevant issues are provided in the following sections.

7.1 REMEDY FUNCTION

Question A: Is the remedy functioning as intended by the decision documents?

Yes, the following provides information in support of why the remedy is continuing to function as intended by the decision documents.

Remedial Action Performance and Monitoring Results:

Overall the cap is in good condition and sporadically requires maintenance to remove weeds and seal surface cracks. There are no signs of deterioration or depression of the asphalt cap that would allow migration of surface water into the subsurface. Thus, the cap continues to prevent downward migration of stormwater, as designed.

The SVE system is performing as expected, and petroleum hydrocarbon and VOC mass removal is effective.

Air sparging for groundwater remediation or bioventing technology for further remediation of heavy end hydrocarbons as proposed in the RAP have not been implemented at the site.

Costs of System Operations/O&M:

The O&M costs have remained approximately the same and reflect the low maintenance cost of the cap and SVE system. The combined annual cost to operate, maintain, sample, and report remedial system results is approximately \$175,000 per year.

Unless the cap significantly degrades or the SVE system requires upgrades or repairs, increased cost is not anticipated. However, if groundwater remediation is still deemed necessary, the remedial system may be expanded to include AS technology.

Opportunities for Optimization:

Continued operation of the SVE system is necessary to further reduce petroleum hydrocarbons and VOC concentrations in the vadose zone. All wells should be sampled quarterly to evaluate vapor concentrations from the well field and assist with system optimization. Current optimization of the SVE system consists of three well schemes to maximize mass removal and target remedial efforts in the known areas of impact. These well schemes include the following:

- Scheme 1: Wells SVE-8, SVE-9, SVE-10 and SVE -11 open. All others closed.
- Scheme 2: wells SVE-1A, SVE-2, SVE-3, and SVE-7 open. All others closed.
- Scheme 3: Wells SVE-4, SVE-5 and SVE-6 open. All others closed.

These well schemes will be rotated every three months or when well field concentrations (C₂ through C₆₊) decline below or near 100 ppmv.

Early Indicators of Potential Issues:

Degradation of the asphalt cap has not occurred. Minor repairs including weed abatement and sealant applied to surface cracks are conducted as needed. In addition, analytical results of soil gas samples collected from the well field as well as soil gas wells indicate that overall VOC compounds have declined since implementation of the soil vapor extraction system.

Implementation of Institutional Controls and Other Measures:

The current industrial use of the Site is appropriate for the remedy. Access is controlled with fencing and locks. The cap precludes direct exposure to any remaining impacted soil or groundwater.

7.2 EXPOSURE ASSUMPTIONS

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy still valid?

Yes, the following provides information the exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid.

Changes in Exposure Pathways:

Exposure pathways have not changed since implementation of the remedy. The Site remains a paved industrial facility; therefore, there are no direct exposure pathways. New routes of human health or ecological exposures have not been identified that could affect the protectiveness of the remedy.

Changes in Land Use:

There have been no changes in land use.

New Contaminants and/or Contaminant Sources:

There are no new contaminant sources. Based on the availability of soil gas CHHSLs, ethylbenzene has been identified as an additional contaminant of concern.

Remedy Byproducts:

Not applicable.

Changes in Standards, Newly Promulgated Standards, and TBCs:

The cap is functioning properly and precludes direct exposure to any remaining impacted soil or groundwater.

Changes in Toxicity and Other Contaminant Characteristics:

Ethylbenzene has been identified as a potential carcinogen and changes to risk practices surrounding vapor intrusion have been implemented. For this reason, a screening evaluation using CHHSLs was performed. However, none of these changes affect the protectiveness of the remedy.

Changes in Risk Assessment Methods:

Changes in standardized risk assessment methodologies would not affect the protectiveness of the remedy due to the type of remedy (cap to eliminate direct exposures and containment to protect groundwater quality). Using the site-specific PRGs for soil gas, only three contaminants of concern were identified (TCE, cis-1,2-DCE and vinyl chloride). However, using current CHHSLs, benzene, ethylbenzene and PCE would also be identified as contaminants of concern. Updating the site-specific PRGs for these six contaminants is recommended.

Expected Progress Towards Meeting RAOs:

The results of the soil gas sampling and Site inspections demonstrate that the RAOs continue to be met and that conditions are stable. Potential human health risks have been reduced by capping of the Site and contaminant mass is being removed by the SVE system. However, the current groundwater wells should be sampled to determine current conditions and if groundwater treatment for the Site is required.

Risk Recalculation/Assessment (As Applicable):

Updating the site-specific PRGs for these six contaminants is recommended. Thereafter a determination will be made if a risk recalculation is required.

7.3 OTHER INFORMATION

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

No, however, the air sparge and bio-vent systems as proposed in the RAP have not been implemented at the Site. Therefore, groundwater should be sampled from existing groundwater monitoring wells to determine if additional groundwater assessment and/or air sparging is required for Site cleanup.

7.4 SUMMARY OF TECHNICAL ASSESSMENT

Based on the results of the visual inspection and SVE system operation, the RAOs identified for the Site (reducing human health risks associated with chemical constituents within the soil column and minimizing potential future impacts to groundwater quality) continue to be met. Thus, the remedy is functioning as intended.

Issues and assumptions that affect the protectiveness of the remedy for the Site are presented in the table below. Additional tasks that should be carried out, but do not necessarily affect the protectiveness of the remedy, are also included in the table.

	Issue	Affects Current Protectiveness	Affects Future Protectiveness
1.	Lack of recent soil data.	N	N
2.	Lack of recent groundwater monitoring data.	Y	Y
3.	Outdated site-specific soil gas cleanup goals	N	N

SECTION NINE

Recommendations and Follow-Up Actions

Recommendations and follow-up actions are included in the following table.

	Recommendations/ Follow-up Actions	Responsible Party	Agency with Oversight Authority	Milestone Date
General Recommendations				
1.	Continue with Five-Year Reviews.	DTSC	DTSC	4/30/17
2	Continue operating the existing SVE system using the well scheme as outlined in Section 7.1 of this Five-Year Review to optimize mass removal and continue site cleanup.	DTSC	DTSC	On-going
3	Evaluate changes in toxicity factors for site contaminants and risk assessment methodologies since the RI/FS and RAP were prepared. Update Site specific cleanup goals as needed.	DTSC	DTSC	06/1/13
Soil Gas and SVE System				
4.	Sample existing soil gas probes and groundwater monitoring wells to determine current conditions. Compare results to site specific cleanup goals and updated cleanup goals. Refine detection limits to meet cleanup goals.	DTSC	DTSC	4/30/13
5	Sample the existing groundwater monitoring wells to evaluate current concentrations.	DTSC	DTSC	4/30/13
6	Conduct soil confirmation sampling at the site in areas where the highest petroleum hydrocarbon and VOC concentrations have been detected. Compare results to the pre-remedial data collected during the Phase I and Phase II site investigations.	DTSC	DTSC	5/31/13
7	Evaluate the need to install additional dual-nested SVE wells and connect to the existing SVE system to enhance remedial activities.	DTSC	DTSC	6/28/13
Groundwater				
8	If needed, define the limits of the VOC impacts to groundwater by installing additional monitoring wells.	DTSC	DTSC	8/30/13
9	Evaluate the need to install an air sparge system to remediate impacted groundwater per the RI/FS and RAP.	DTSC	DTSC	5/31/13

The current remedy is protective of human health and the environment. Exposure pathways that could result in unacceptable risks are being controlled and institutional controls are preventing exposure to contaminated soil and soil gas. Threats at the Site have been addressed through removal actions, engineered surface cap installation, SVE system operation, and fencing installation.

The Site will continue to be visually inspected to ensure the integrity of the surface. Additionally, weekly O&M activities will continue to be conducted during operation of the SVE system. While soil gas levels for some VOCs have declined by an order of magnitude from 1998 to 2010, concentrations for many constituents remain well above their corresponding CHHSLs. Time plots and CHHSLs can be used to monitor soil remediation effectiveness during on-going SVE operations, although site-specific cleanup goals should be derived based on the ultimate future land-use scenario for the site.

Due to the absence of recent groundwater monitoring data, the nature and extent of groundwater impacts cannot accurately be evaluated. Assessing the current groundwater conditions is necessary to determine if the proposed remedy is functioning properly or if groundwater remediation is required for the Site.

The next Five-Year Review will be for the period of January 1, 2013 through January 1, 2018. The review will include the results of the visual inspections and SVE system operation review as well as any additional work performed at the Site.

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Table 1
Well Construction Details
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, California
Page (1 of 1)

Well ID	Total Well Depth (Feet bgs)	Screen Interval (Feet bgs)	Well Casing	Slot Size (inches)
SVE-1A	50	10 to 20 and 30 to 50	3-inch Sch. 40 PVC	0.01
SVE-2	50	10 to 20 and 30 to 50	3-inch Sch. 40 PVC	0.01
SVE-3	50	10 to 20 and 30 to 50	3-inch Sch. 40 PVC	0.01
SVE-4	20	10 to 20	3-inch Sch. 40 PVC	0.01
SVE-5	20	10 to 20	3-inch Sch. 40 PVC	0.01
SVE-6	20	10 to 20	3-inch Sch. 40 PVC	0.01
SVE-7	50	10 to 20 and 30 to 50	3-inch Sch. 40 PVC	0.01
SVE-8	50	10 to 20 and 30 to 50	3-inch Sch. 40 PVC	0.01
SVE-9	40	15 to 40	3-inch Sch. 40 PVC	0.01
SVE-10	40	15 to 40	3-inch Sch. 40 PVC	0.01
SVE-11	20	10 to 20	3-inch Sch. 40 PVC	0.01
SG-1	41.5	4.5 to 5, 19.5 to 20, and 39.5 to 40	3/4-inch Sch. 40 PVC	NA
SG-2	41.5	4.5 to 5, 19.5 to 20, and 39.5 to 40	3/4-inch Sch. 40 PVC	NA
SG-3	41.5	4.5 to 5, 19.5 to 20, and 39.5 to 40	3/4-inch Sch. 40 PVC	NA
SG-4	41.5	4.5 to 5, 19.5 to 20, and 32.5 to 33	3/4-inch Sch. 40 PVC	NA
SG-5	36.5	4.5 to 5, 19.5 to 20, and 29.5 to 30	3/4-inch Sch. 40 PVC	NA
SG-6	26	6.5 to 7.5, 14.5 to 15.5, and 24.5 to 25.5	2-inch Sch. 40 PVC	NA

NA: Not Applicable

TABLE 2
SOIL GAS ANALYTICAL RESULTS, JULY 1998
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
Page (1 of 5)

Soil Gas Well Number	Sample ID	Sample Depth (ft bgs)	Date Analyzed	Purge Volume (ml)	Tetrachloroethene	Trichloroethene	Benzene	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	n-Propylbenzene	Toluene
					ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SG-1	SG-01-05-1	5	7/30/1998	31	ND (<1.0)	100	ND (<1.0)	55	ND (<1.0)	7.8	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	3.1
	SG-01-05-1	5	7/30/1998	49	ND (<1.0)	98	ND (<1.0)	51	ND (<1.0)	7.2	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.9
	SG-01-05-1	5	7/30/1998	68	ND (<1.0)	97	ND (<1.0)	53	ND (<1.0)	7.6	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.8
	SG-01-20-1	20	7/30/1998	12.4	ND (<5.0)	32	ND (<5.0)	65	ND (<5.0)	34	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
	SG-01-40-1	40	7/30/1998	12.4	ND (<5.0)	ND (<5.0)	ND (<5.0)	77	ND (<5.0)	31	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
SG-2	SG-02-05-1	5	7/30/1998	12.4	3.9	97	4.8	30	3.9	1,800	7	30	2.1	1.6	20
	SG-02-20-1	20	7/30/1998	12.4	ND (<1.0)	2.6	3.3	20	1.1	480	3.6	2.3	ND (<1.0)	ND (<1.0)	3.4
	SG-02-40-1	40	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	3.1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-3	SG-03-05-1	5	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-03-20-1	20	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-03-40-1	40	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-4	SG-04-05-1	5	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-04-20-1	20	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	5G-04-33-1	33	7/30/1998	11.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.8	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-5	SG-05-05-1	5	7/30/1998	12.4	ND (<1.0)	1.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-05-20-1	20	7/30/1998	12.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	5G-05-30-1	33	7/30/1998	11.7	ND (<1.0)	ND (<1.0)	ND (<1.0)	7.1	ND (<1.0)	4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

NOTES:

- (1) Summation of all Volatile Organic Compounds
- ft bgs = Feet below Ground Surface
- ml = milliliters
- ND = Not detected at or above laboratory detection limit

TABLE 2
SOIL GAS ANALYTICAL RESULTS, JULY 1998
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
Page (2 of 5)

Soil Gas Well Number	Sample ID	Sample Depth (ft bgs)	Date Analyzed	Purge Volume (ml)	1,1,1-Trichloroethane	Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes	Total Volatile Organic Compounds ¹
					ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
SG-1	SG-01-05-1	5	7/30/1998	31	7.6	52	ND (<1.0)	ND (<1.0)	320	ND (<3.0)	546
	SG-01-05-1	5	7/30/1998	49	7.4	51	ND (<1.0)	ND (<1.0)	270	ND (<3.0)	487.5
	SG-01-05-1	5	7/30/1998	68	7.6	64	ND (<1.0)	ND (<1.0)	290	ND (<3.0)	522
	SG-01-20-1	20	7/30/1998	12.4	ND (<5.0)	160	ND (<5.0)	ND (<5.0)	790	ND (<15.0)	1081
	SG-01-40-1	40	7/30/1998	12.4	19	240	ND (<5.0)	ND (<5.0)	1,400	ND (<15.0)	1767
SG-2	SG-02-05-1	5	7/30/1998	12.4	ND (<1.0)	5.5	2.3	1.6	1,100	22	3132
	SG-02-20-1	20	7/30/1998	12.4	ND (<1.0)	3.2	ND	ND (<1.0)	1,400	ND (<3.0)	1919.5
	SG-02-40-1	40	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	1.6	ND (<3.0)	4.7
SG-3	SG-03-05-1	5	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	ND
	SG-03-20-1	20	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	ND
	SG-03-40-1	40	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	ND
SG-4	SG-04-05-1	5	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	ND
	SG-04-20-1	20	7/30/1998	12.4	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	ND
	5G-04-33-1	33	7/30/1998	11.3	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	1.8
SG-5	SG-05-05-1	5	7/30/1998	12.4	ND (<1.0)	5.9	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	7.3
	SG-05-20-1	20	7/30/1998	12.4	ND (<1.0)	6.9	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<3.0)	6.9
	5G-05-30-1	33	7/30/1998	11.7	ND (<1.0)	15	ND (<1.0)	ND (<1.0)	81	ND (<3.0)	107.1

NOTES:

- (1) Summation of all Volatile Organic Compounds
- ft bgs = Feet below Ground Surface
- ml = milliliters
- ND = Not detected at or above laboratory detection limit

TABLE 3
SOIL GAS ANALYTICAL RESULTS, MARCH 2010
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
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Soil Gas Well Number	Sample ID	Sample Depth (ft bgs)	Date Analyzed	Purge Volume (ml)	Benzene	n-Butylbenzene	sec-Butylbenzene	C4-C12	Carbon disulfide	1,1-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene
					ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SG-1	SG-1-05'	5.0	03/10/2010	48,012	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	2.2	2.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-1-20'	20.0	03/10/2010	77,249	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	17	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-1-40'	40.0	03/10/2010	21,092	ND (<0.5)	ND (<1.0)	ND (<1.0)	860	19	6.9	15	ND (<1.0)	2.0	ND (<1.0)	ND (<1.0)
SG-2	SG-2-05'-1V	5.0	03/10/2010	48,012	1.5	ND (<2.0)	1.4	2800	ND (<20)	2.8	250	1.2	31	1.9	ND (<2.0)
	SG-2-05'-3V	5.0	03/10/2010	144,037	1.1	1.1	1.4	2700	ND (<20)	2.1	180	ND (<2.0)	28	1.7	ND (<2.0)
	SG-2-05'-7V	5.0	03/10/2010	336,086	1.3	1.2	1.6	2700	ND (<20)	2.3	210	ND (<2.0)	31	1.9	1.6
	SG-2-20'	20.0	03/10/2010	77,249	ND (<0.5)	ND (<1.0)	ND (<1.0)	550	ND (<10)	ND (<1.0)	31	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-2-20'-DUP	20.0	03/10/2010	77,249	ND (<0.5)	ND (<1.0)	ND (<1.0)	530	ND (<10)	ND (<1.0)	31	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-2-40'	40.0	03/10/2010	21,092	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-3	SG-3-05'	5.0	03/10/2010	48,012	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-3-20'	20.0	03/10/2010	77,249	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-3-40'	40.0	03/10/2010	21,092	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-4	SG-4-05'	5.0	03/11/2010	48,012	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-4-05'-DUP	5.0	03/11/2010	48,012	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-4-20'	20.0	03/11/2010	44,828	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-4-33'	33.0	03/11/2010	53,512	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
SG-6	SG-6-07'	7.0	03/11/2010	25,712	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-6-15'	15.0	03/11/2010	35,629	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
	SG-6-25'	25.0	03/11/2010	30,262	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1000)	ND (<10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
DTSC Residential Soil Gas CHHSL:					0.036	NC	NC	NC	NC	NC	15.9	31.9	0.42	NC	NC
DTSC Commercial Soil Gas CHHSL:					0.122	NC	NC	NC	NC	NC	44.4	88.7	1.4	NC	NC

TABLE 3
SOIL GAS ANALYTICAL RESULTS, MARCH 2010
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
Page (4 of 5)

Soil Gas Well Number	Sample ID	Sample Depth (ft bgs)	Date Analyzed	Purge Volume (ml)	n-Propylbenzene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m,p-Xylene	o-Xylene
					ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SG-1	SG-1-05'	5.0	03/10/2010	48,012	ND (<1.0)	1.9	ND (<1.0)	ND (<1.0)	17	0.76	0.53	ND (<0.5)	1.2	0.67
	SG-1-20'	20.0	03/10/2010	77,249	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-1-40'	40.0	03/10/2010	21,092	0.66	1.9	1.1	2.0	2.5	1.9	1.2	0.73	3.0	1.2
SG-2	SG-2-05'-1V	5.0	03/10/2010	48,012	3.3	2.4	4.1	ND (<2.0)	3.3	8.7	4.9	10	12	9.2
	SG-2-05'-3V	5.0	03/10/2010	144,037	3.1	2.1	3.3	ND (<2.0)	3.5	9.1	4.8	8.8	10	7.6
	SG-2-05'-7V	5.0	03/10/2010	336,086	3.4	2.4	3.8	ND (<2.0)	4.6	11	5.2	8.1	11	9.1
	SG-2-20'	20.0	03/10/2010	77,249	ND (<1.0)	1.1	ND (<1.0)	ND (<1.0)	2.3	ND (<1.0)	ND (<1.0)	2.9	ND (<2.0)	ND (<1.0)
	SG-2-20'-DUP	20.0	03/10/2010	77,249	ND (<1.0)	1.1	ND (<1.0)	ND (<1.0)	2.1	ND (<1.0)	ND (<1.0)	3.0	ND (<2.0)	ND (<1.0)
	SG-2-40'	40.0	03/10/2010	21,092	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.82	ND (<2.0)	ND (<1.0)
SG-3	SG-3-05'	5.0	03/10/2010	48,012	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-3-20'	20.0	03/10/2010	77,249	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-3-40'	40.0	03/10/2010	21,092	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
SG-4	SG-4-05'	5.0	03/11/2010	48,012	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-4-05'-DUP	5.0	03/11/2010	48,012	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-4-20'	20.0	03/11/2010	44,828	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-4-33'	33.0	03/11/2010	53,512	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
SG-6	SG-6-07'	7.0	03/11/2010	25,712	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.87	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-6-15'	15.0	03/11/2010	35,629	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.67	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
	SG-6-25'	25.0	03/11/2010	30,262	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)	ND (<1.0)
DTSC Residential Soil Gas CHHSL:					NC	0.180	135	991	0.5280	NC	NC	0.0133	317	315
DTSC Commercial Soil Gas CHHSL:					NC	0.603	378	2790	1.77	NC	NC	0.0448	887	879

TABLE 4
SOIL GAS DATA COMPARISON
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
Page (5 of 5)

Soil Gas Well Number	Sample ID	Sample Depth (ft bgs)	2010 Benzene	1998 Benzene	2010 cis-1,2-Dichloroethene	1998 cis-1,2-Dichloroethene	2010 Ethylbenzene	1998 Ethylbenzene	2010 Tetrachloroethene	1998 Tetrachloroethene	2010 Trichloroethene	1998 Trichloroethene	2010 Vinyl Chloride	1998 Vinyl Chloride
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SG-1	SG-1-05'	5.0	ND (<0.5)	ND (<1.0)	2.3	7.6	ND (<1.0)	ND (<1.0)	1.9	ND (<1.0)	17	100	ND (<0.5)	320
	SG-1-20'	20.0	ND (<0.5)	ND (<5.0)	ND (<1.0)	34	ND (<1.0)	ND (<5.0)	ND (<1.0)	ND (<5.0)	ND (<1.0)	32	ND (<0.5)	790
	SG-1-40'	40.0	ND (<0.5)	ND (<5.0)	15	31	2.0	ND (<5.0)	1.9	ND (<5.0)	2.5	ND (<5.0)	0.73	1,400
SG-2	SG-2-05'	5.0	1.5	4.8	250	1,800	31	30	2.4	3.9	4.6	97	10	1,100
	SG-2-20'	20.0	ND (<0.5)	3.3	31	480	ND (<1.0)	2.3	1.1	ND (<1.0)	2.3	2.6	3	1,400
	SG-2-40'	40.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.82	1.6
SG-3	SG-3-05'	5.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
	SG-3-20'	20.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
	SG-3-40'	40.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
SG-4	SG-4-05'	5.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
	SG-4-20'	20.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
	SG-4-33'	33.0	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.5)	ND (<2.0)
DTSC Residential Soil Gas CHSSL:			0.036		15.9		0.42		0.180		0.528		0.0133	
DTSC Commercial Soil Gas CHSSL:			0.122		44.4		1.4		0.603		1.77		0.0448	

NOTES:

For SG-1, 5 feet, the maximum concentration in 1998 is presented regardless of purge volume.

For SG-2, 5 feet, the maximum concentration in 2010 is presented regardless of purge volume. For SG-2 at 20 feet and SG-4 at 5 feet for 2010, the maximum of the normal or duplicate is presented.

Yellow highlight indicates an exceedance of commercial and residential CHHSLs. Italics indicates exceedance of residential CHHSL only.

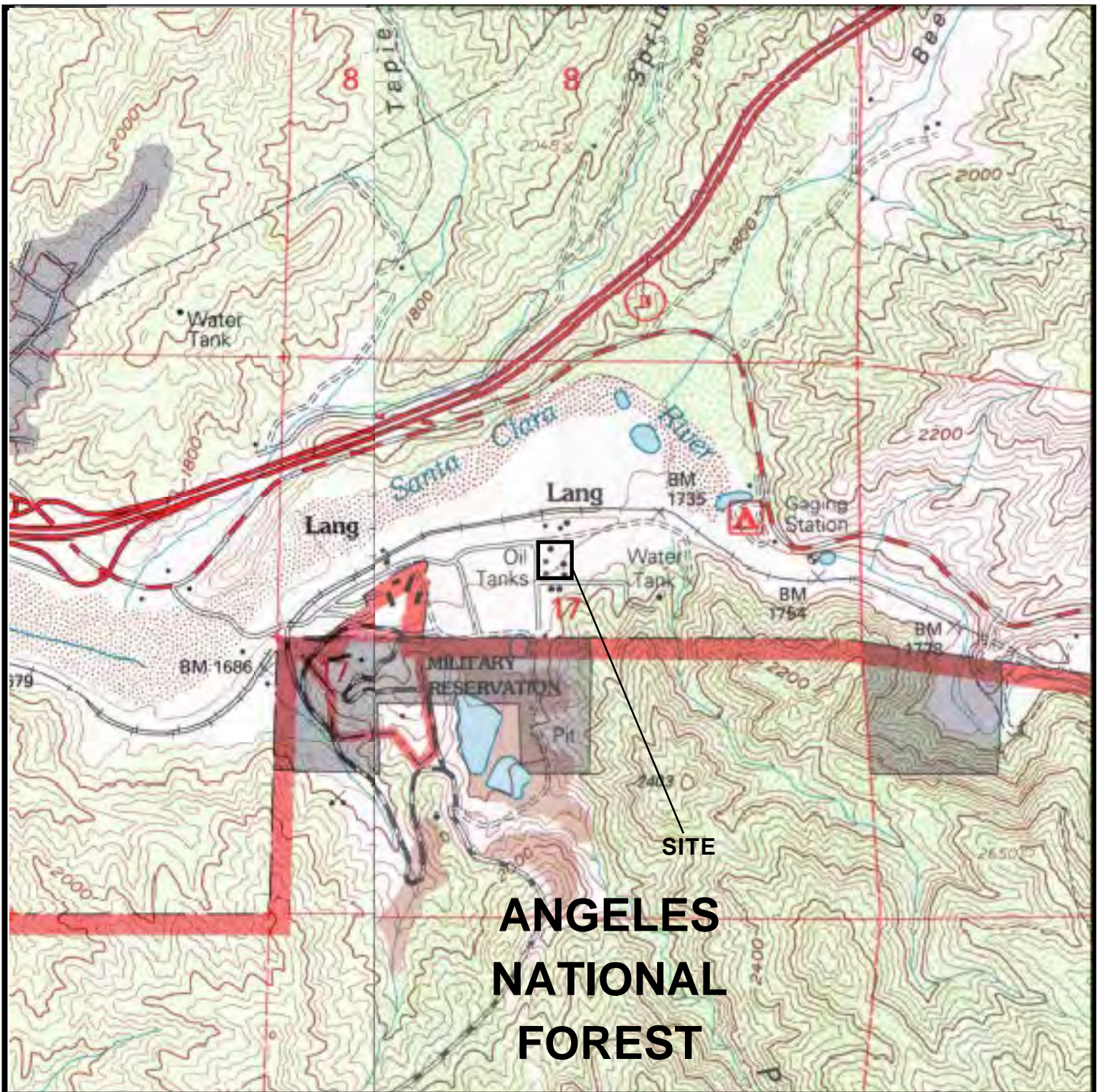
CHHSL = California Human Health Screening Level

DTSC = Department of Toxic Substance Control.

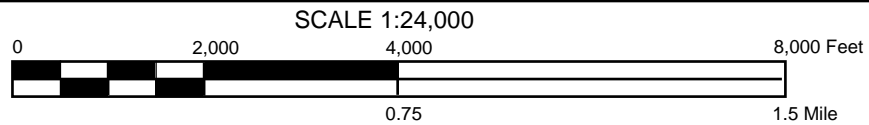
ft bgs = Feet below Ground Surface

ug/l = microgram per liter

ND = Not detected at or above laboratory detection limit



SOURCE: USGS, 1960. Topographic Map of Agua Dulce, California Quadrangle: 7.5 Minute quadrangle map, scale 1:24,000, photorevised 1988, 1994



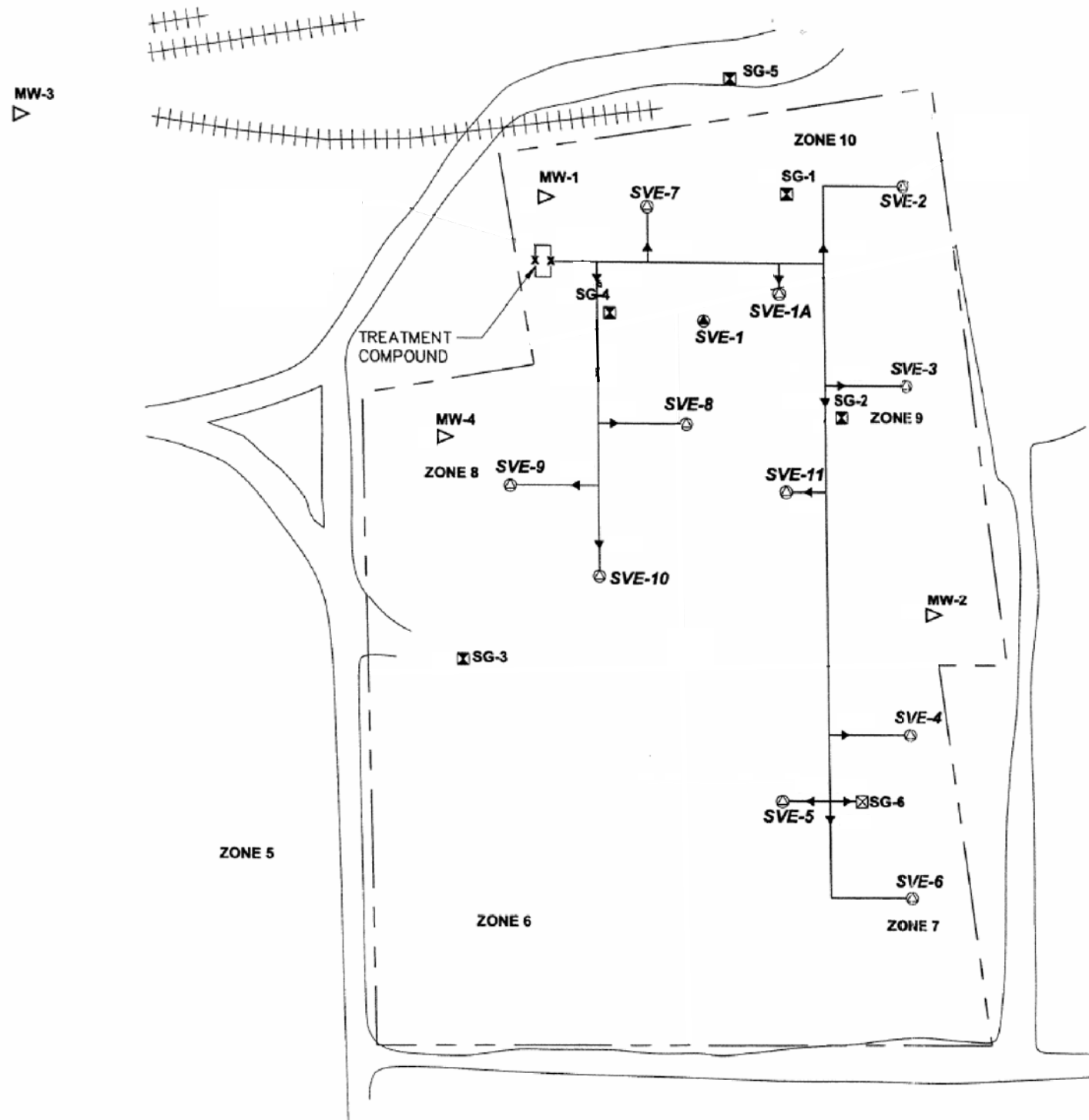
SITE LOCATION MAP

FIGURE 1

Former Lubrication Company of America
 12500 Lang Station Road
 Canyon Country, California

URS Job No: 29403356





Abbreviations

FT Feet
 " Inch
 SVE Soil Vapor Extraction

Legend

- SVE-1** Existing SVE Well Location
- SG-3** Soil Gas Probe Location
- MW-2** Groundwater Monitoring Well Location and Designation
- SVE-4** Proposed SVE Well Location
- Reducer
- x- Chain Link Fence

SOURCE: Tetra Tech, Inc. 2004.

SITE PLAN WITH SVE SYSTEM LAYOUT

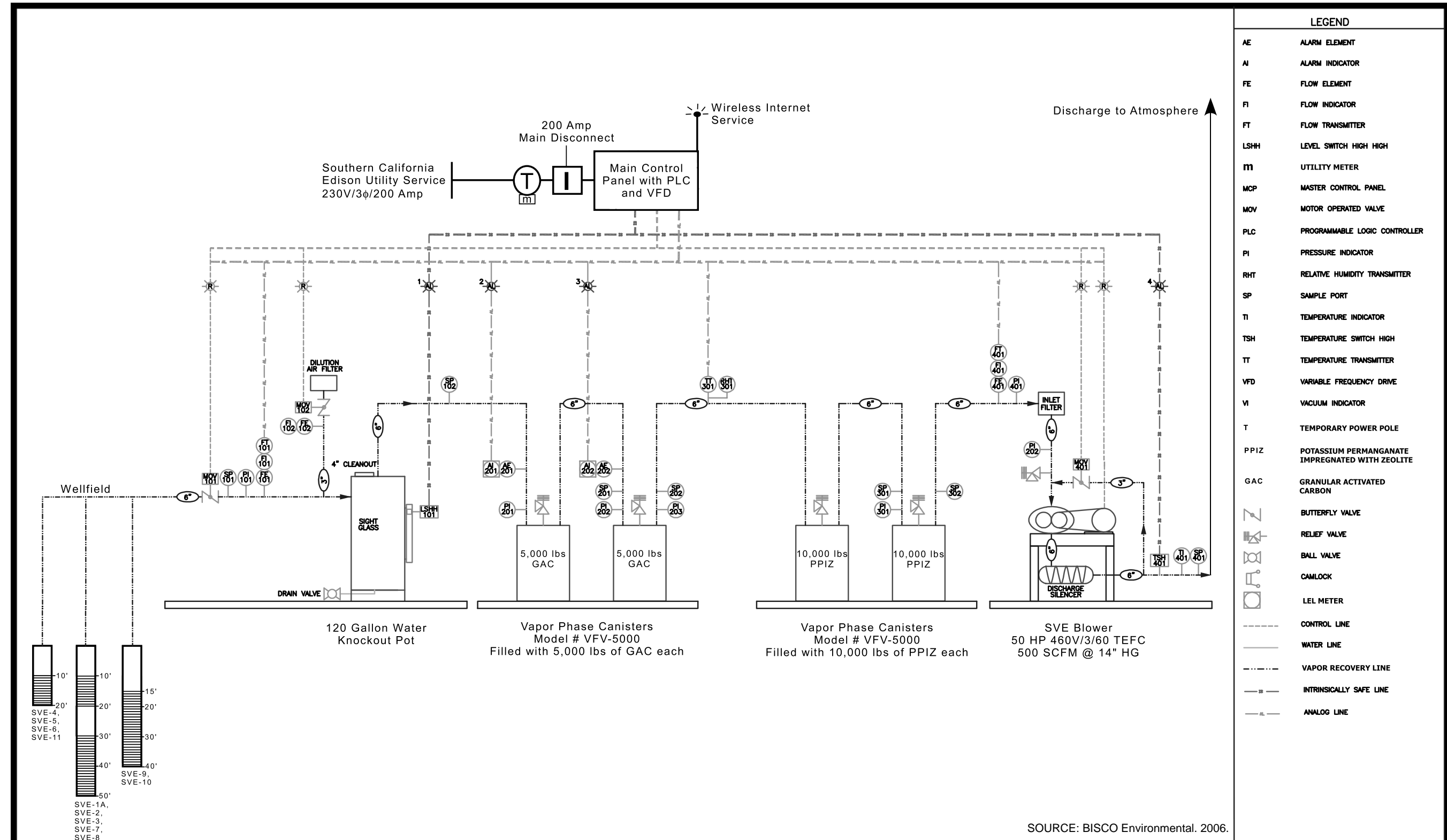
FIGURE 2

Former Lubrication Company of America
 12500 Lang Station Road
 Canyon County, California



URS Job No: 29403356





PROCESS FLOW DIAGRAM

FIGURE 3

Former Lubrication Company of America
12500 Lang Station Road
Canyon County, California



URS Job No: 29403356

FIGURE NOT TO SCALE

Figure 4
Well Field Concentration - Vinyl Chloride
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

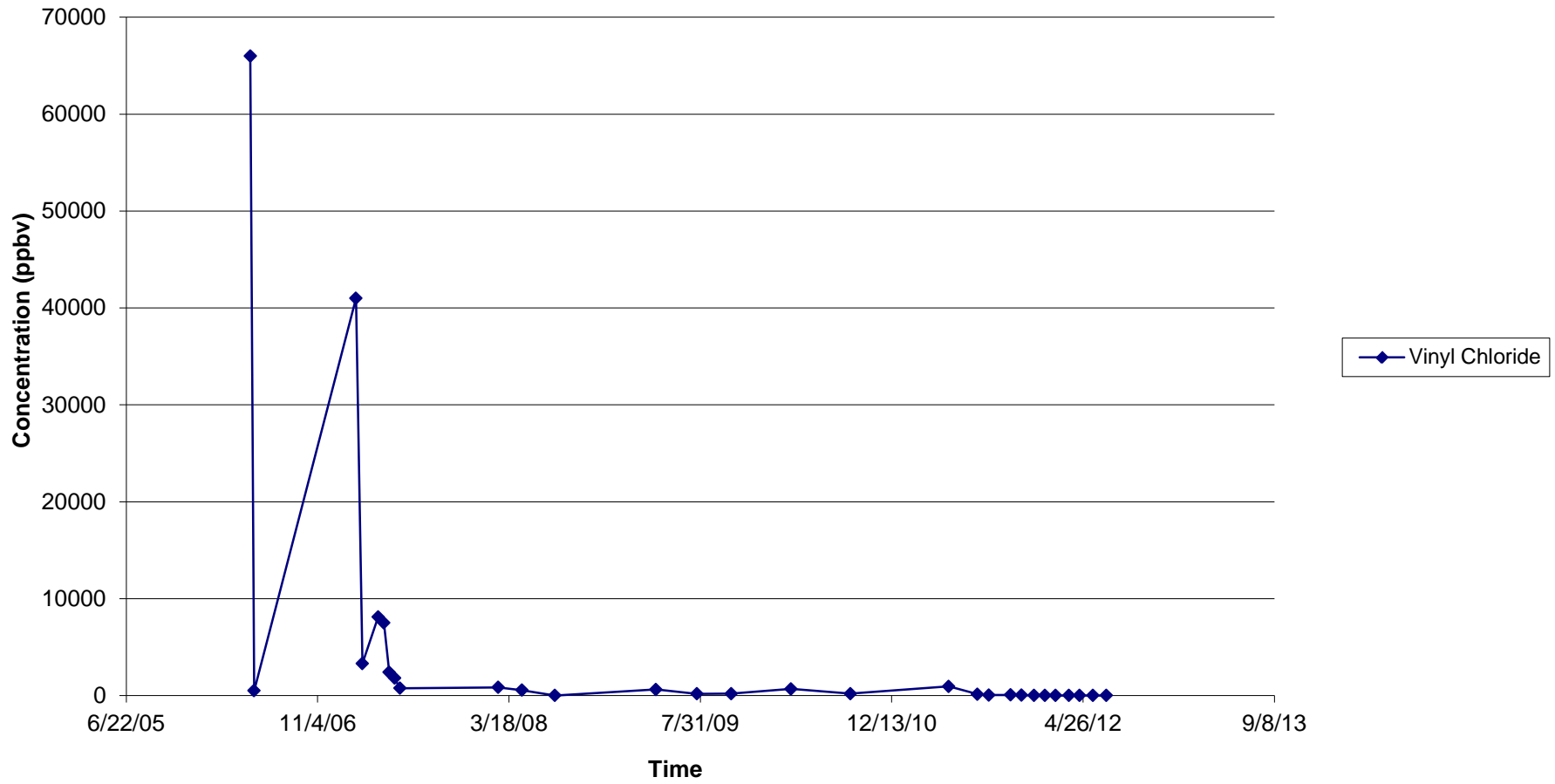


Figure 5
Well Field Concentration -1,1-Dichloroethane
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

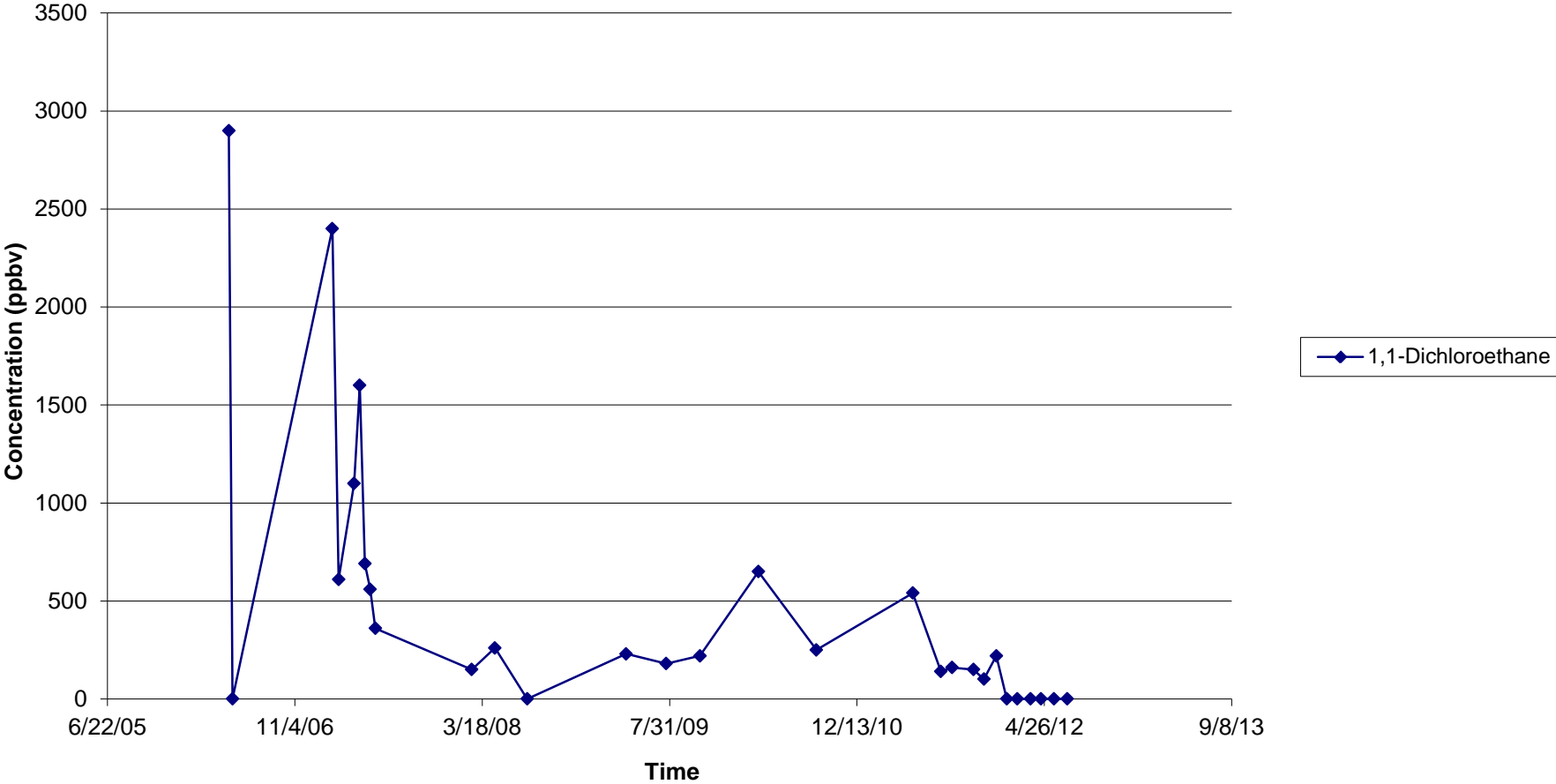


Figure 6
Well Field Concentration -1,2-Dichloroethane
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

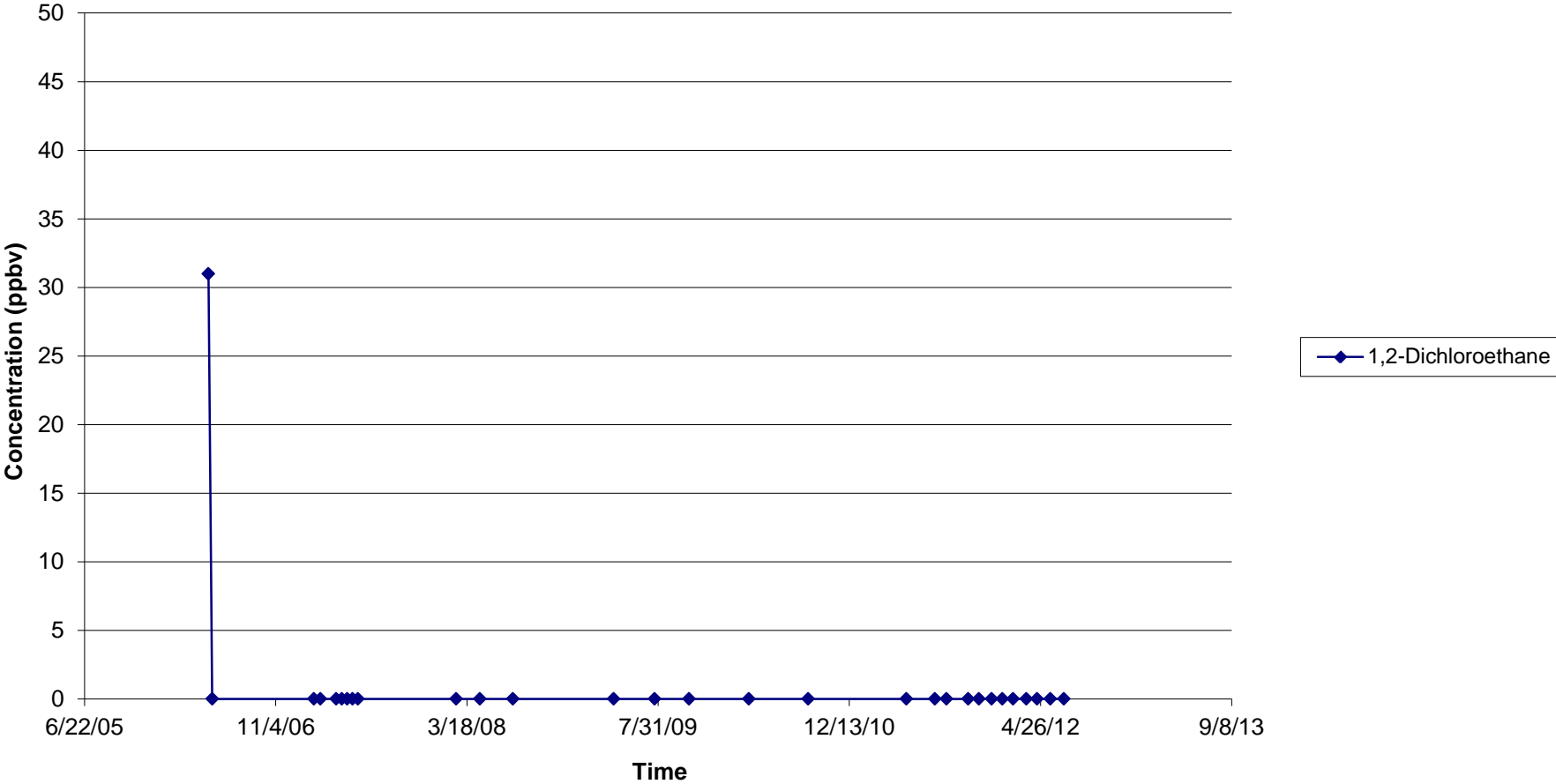


Figure 7
Well Field Concentration -Methylene Chloride
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

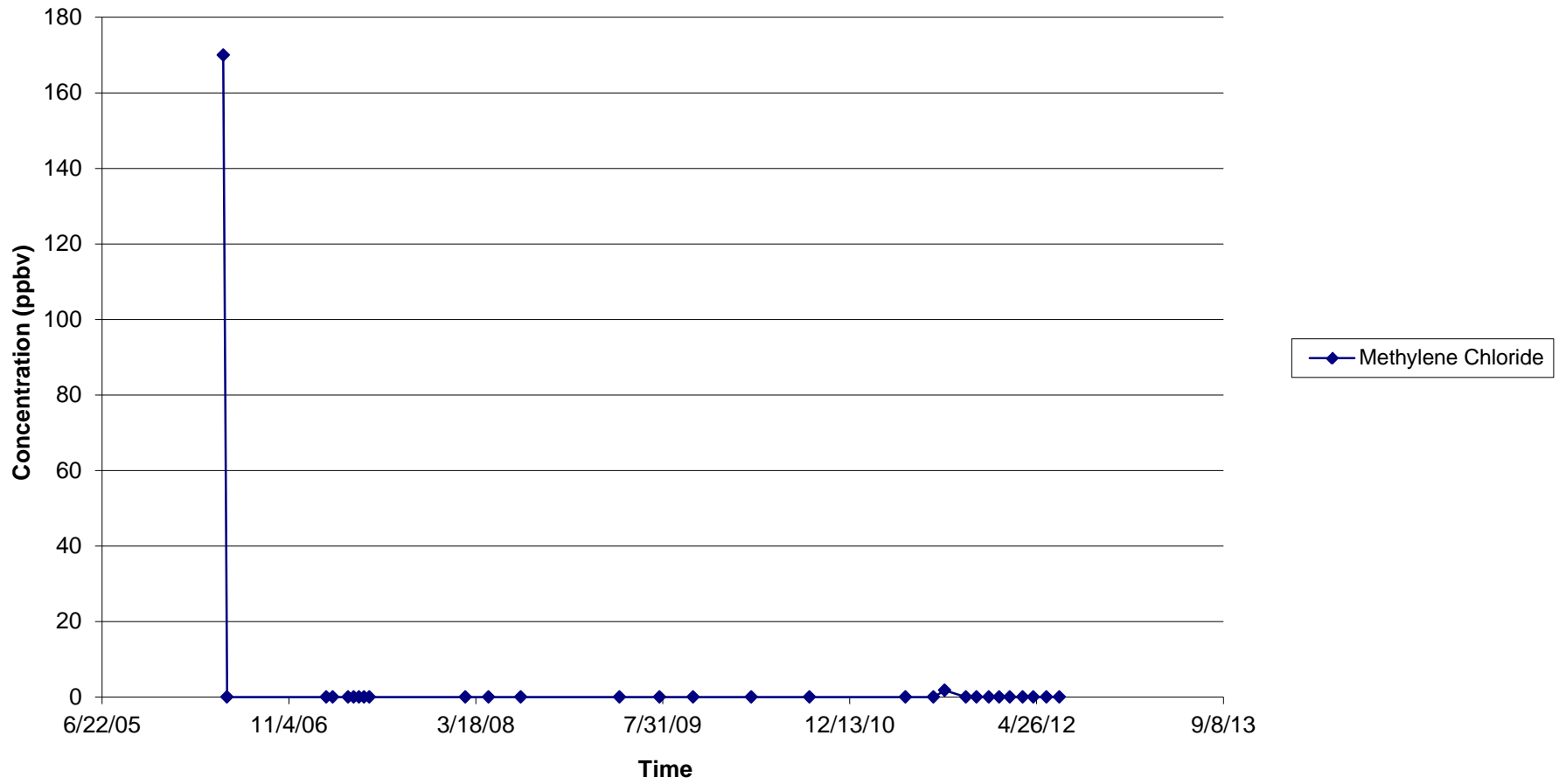


Figure 8
Well Field Concentration -Tetrachloroethylene
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

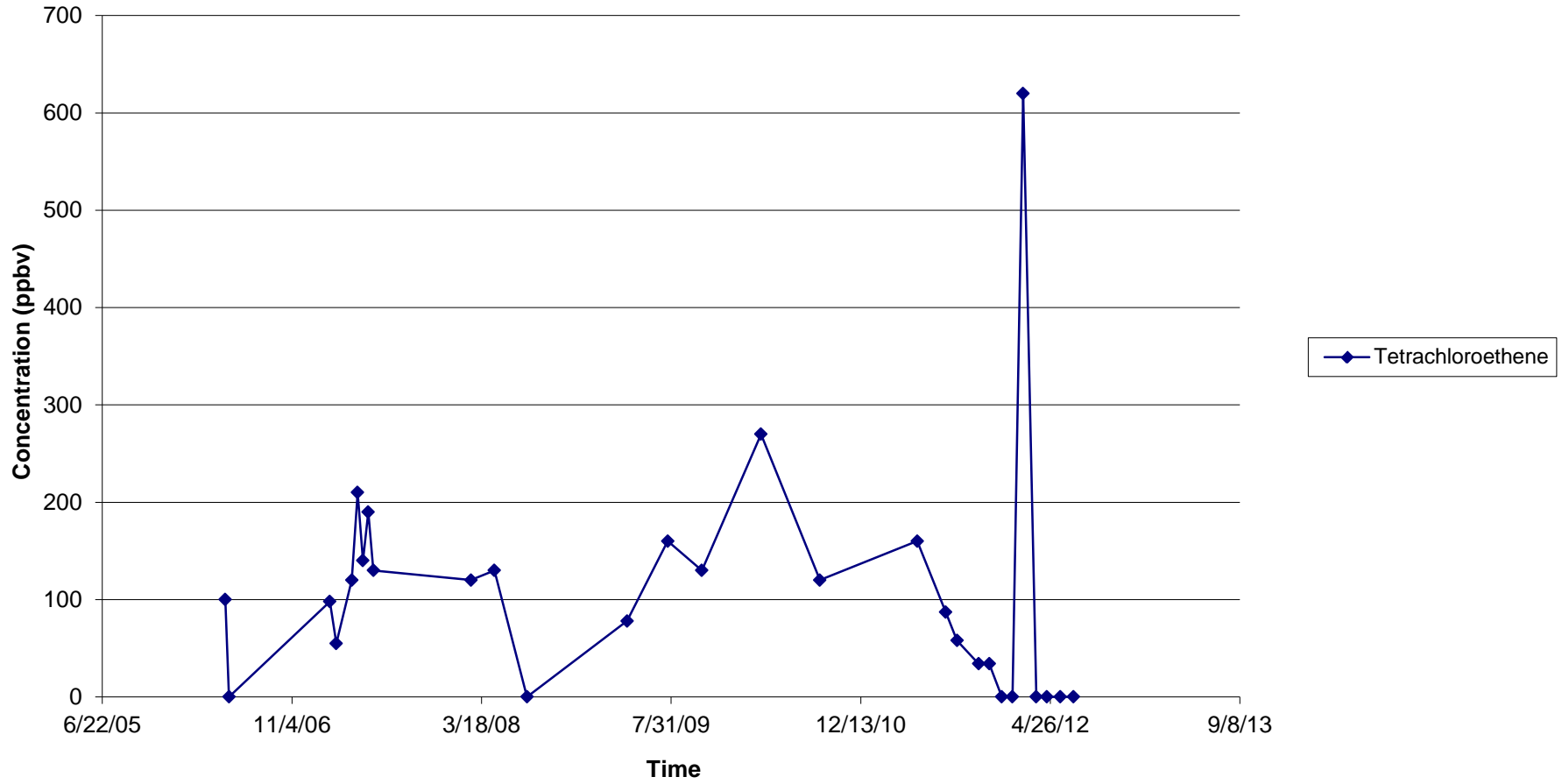


Figure 9
Well Field Concentration -Trichloroethylene
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

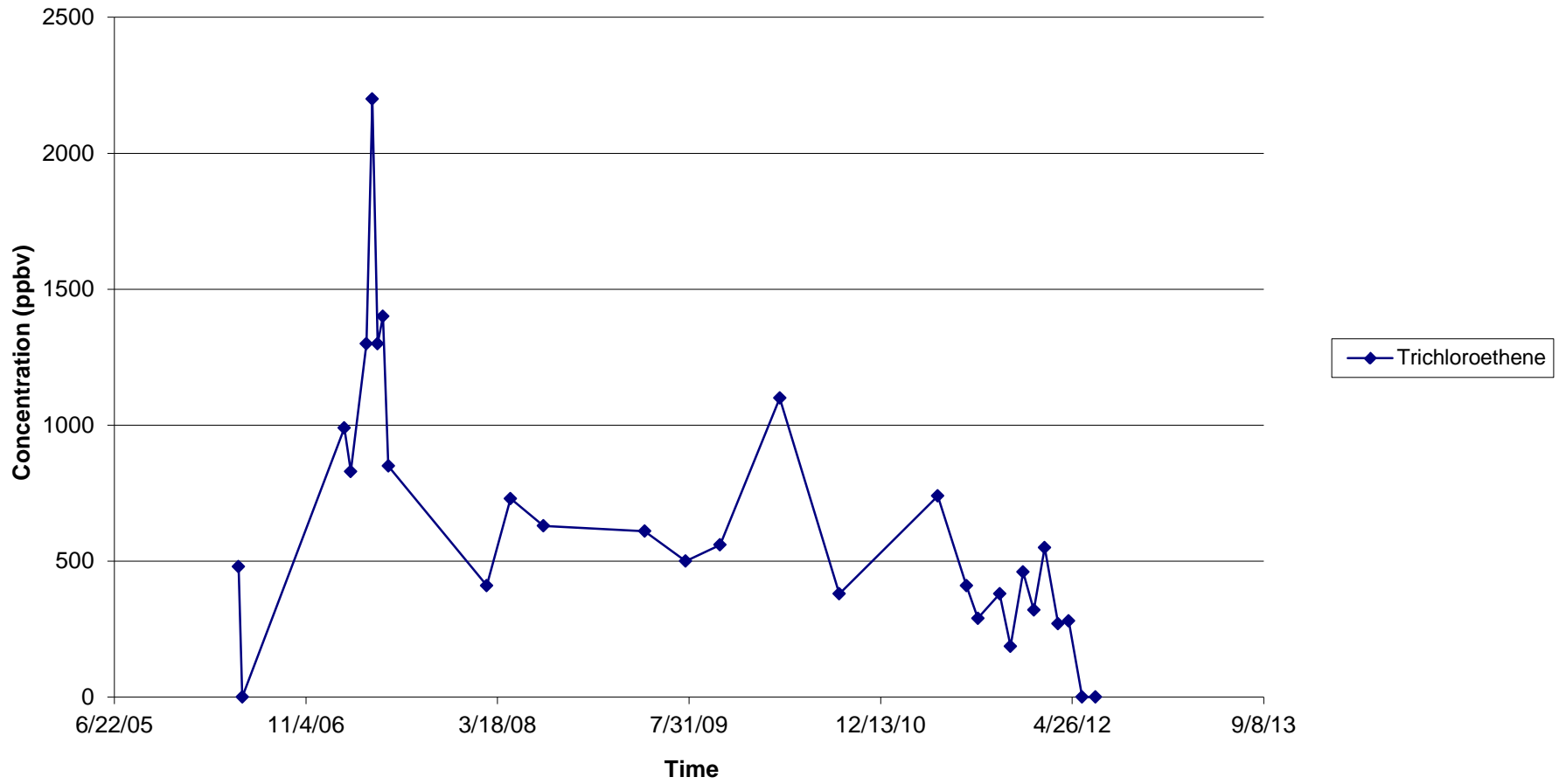


Figure 10
Well Field Concentration - Benzene
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

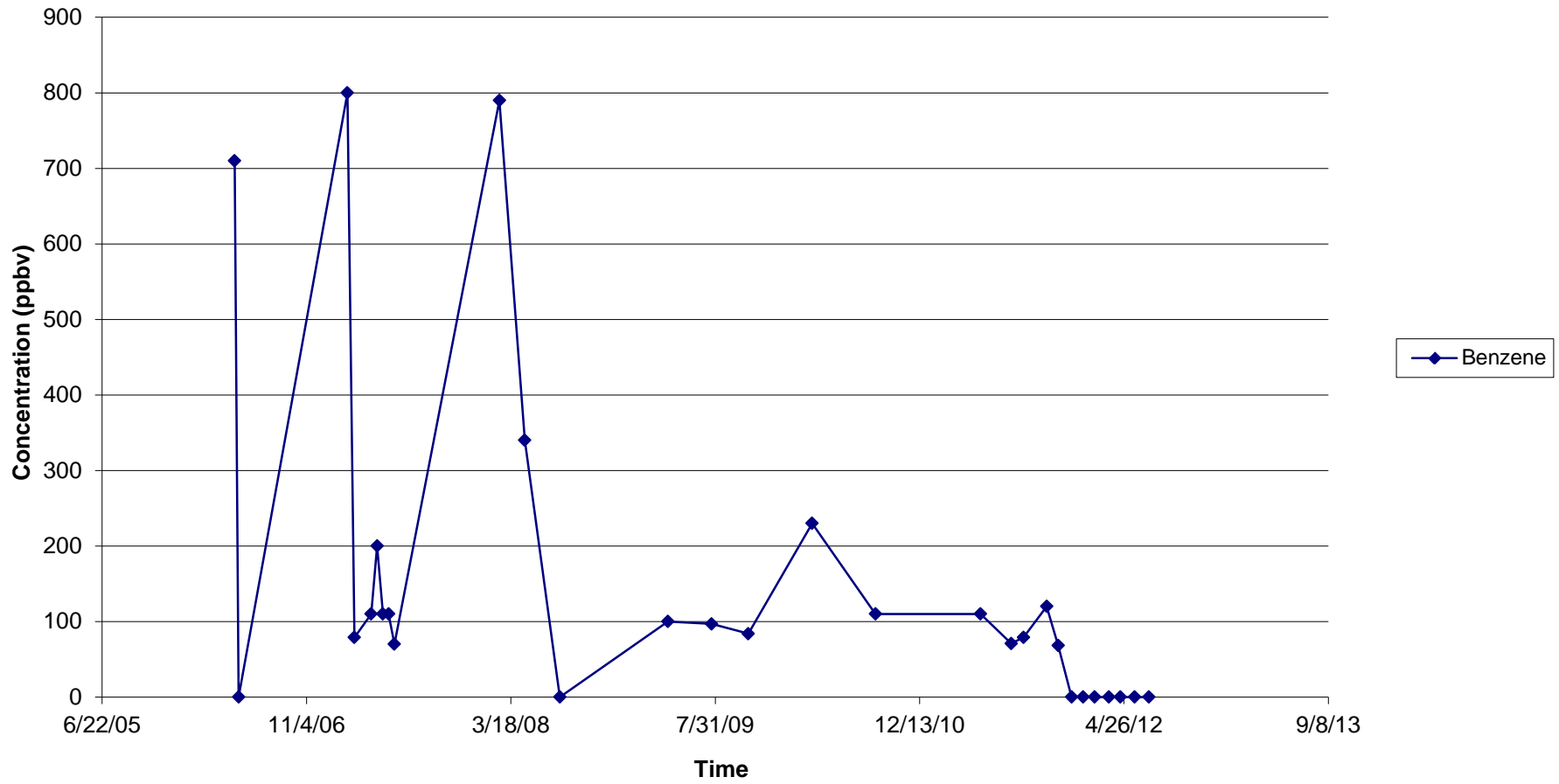


Figure 11
Well Field Concentration - C2 through C6+
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

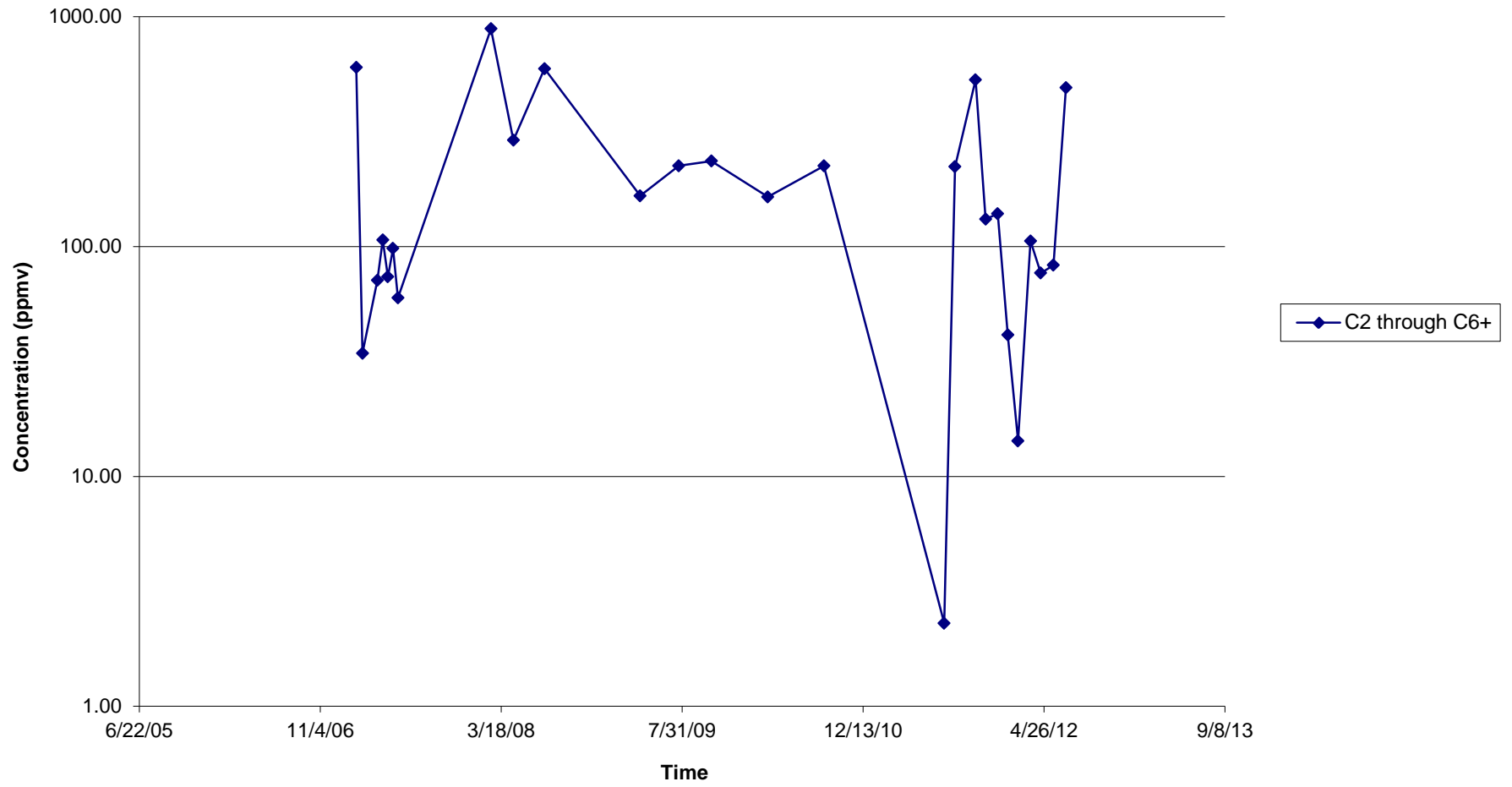


Figure 12
Well Field Concentration -Methane
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

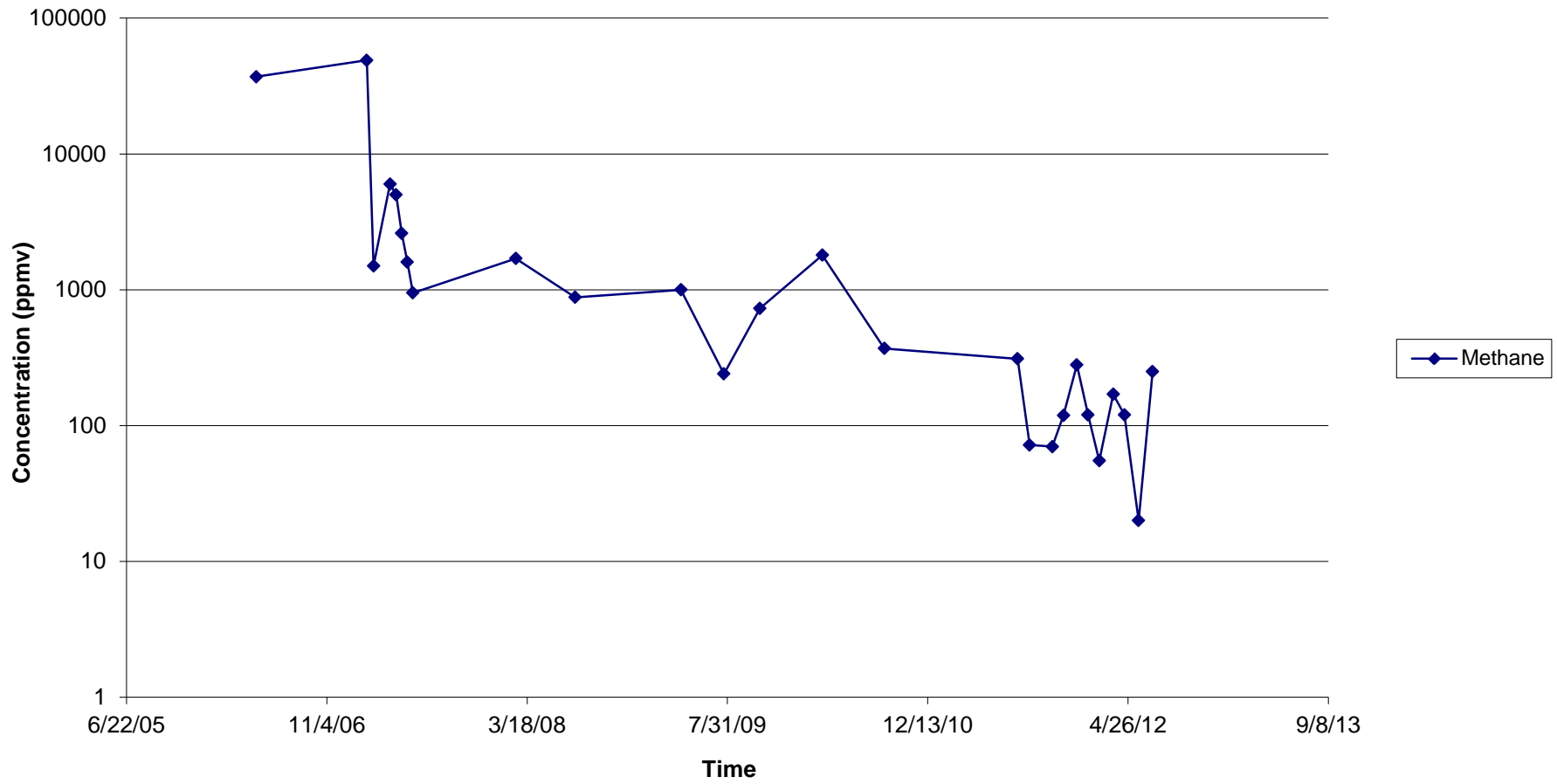


Figure 13
Cumulative C2 through C6+ Mass Removal vs. Time
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

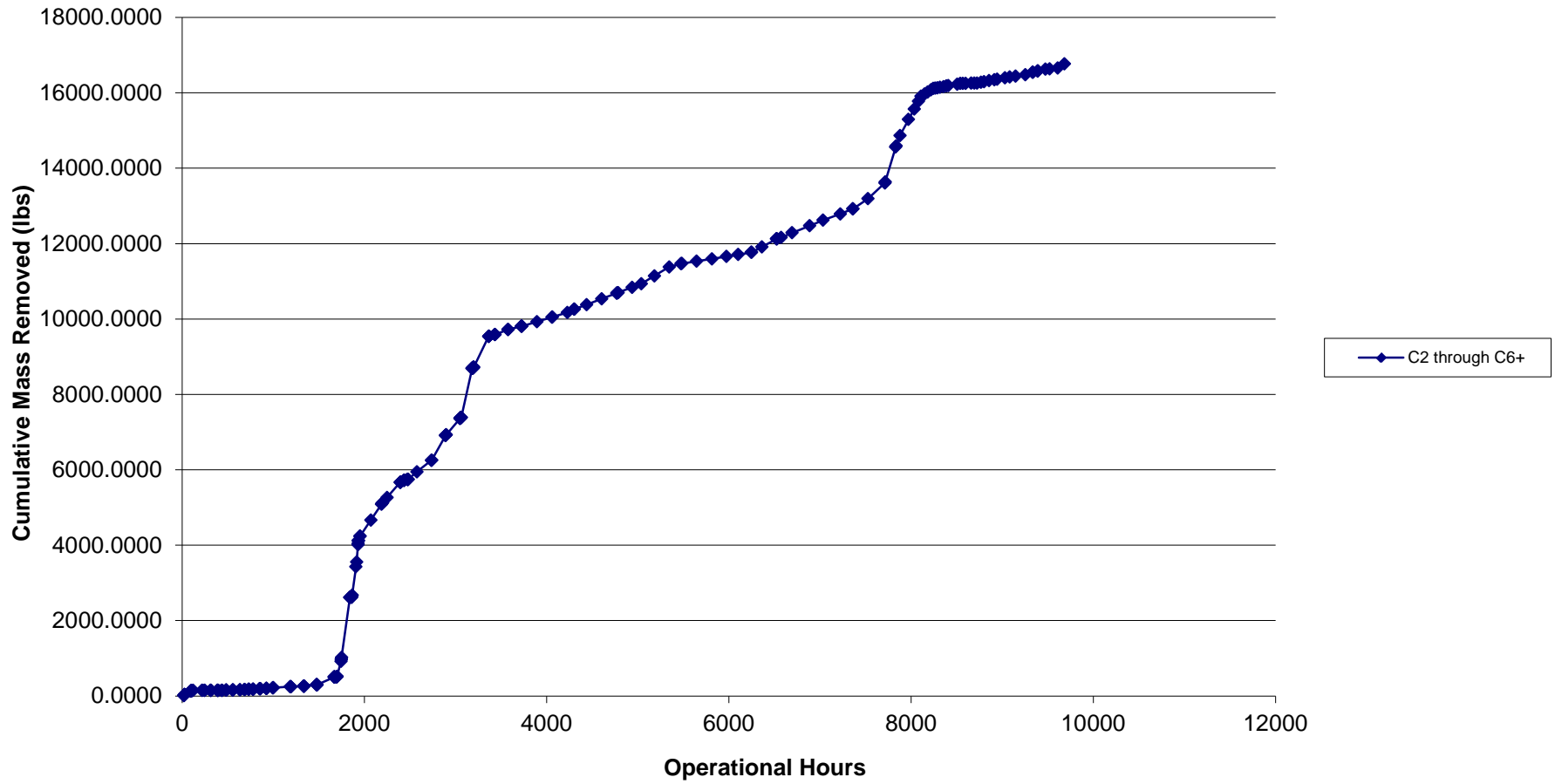


Figure 14
Cumulative VOC Mass Removal vs. Time
Former Lubrication Company of America
12500 Lang Station Road
Canyon Country, CA

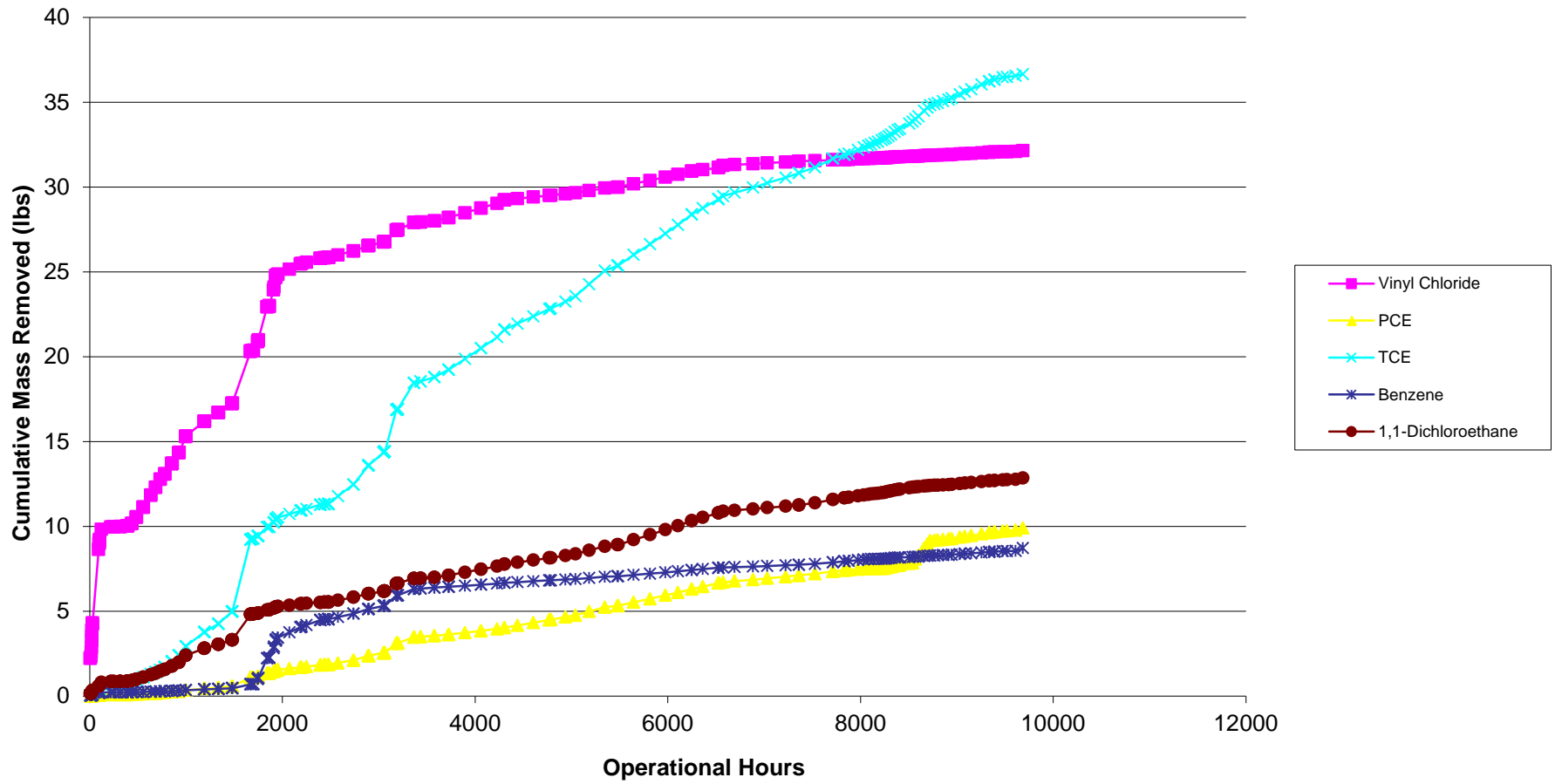


Table 1- Soil Gas Preliminary Cleanup Goals

Compounds Detected in Soil Gas	Preliminary Cleanup Goals (µg/l)
Tetrachloroethane	8.6
Trichloroethene	4.6
Benzene	2.3
1,1- Dichloroethane	2876.2
1,1 Dichloroethene	9.4
cis 1,2 Dichloroethene	70.1
Trans 1,2 Dichloroethene	39.5
Ethylbenzene	182.3
Isopropylbenzene	-
n-Propylbenzene	-
Toluene	374.5
1,1,1 Trichloroethane	198.9
trichlorotrifluoroethane	-
1,2,4 Trimethylbenzene	-
1,3,5 Trimethylbenzene	-
Vinyl Chloride	3
Total Xylenes	7199.7

Table 2- Groundwater Preliminary Cleanup Goal

Compounds Detected	Preliminary Cleanup Goal (µg/l)
Benzene	0.102
1,1 Dichloroethane	0.106
cis 1,2 Dichloroethene	6
Ethylbenzene	700
1,1,2,2 Tetrachloroethane	0.019
1,1,1 Trichloroethane	200
1,1,2 Trichloroethane	3.02
Vinyl Chloride	0.00034
Total Xylene	1750

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
Canyon Country, California
Page (1 of 28)

Sample ID	Date Analyzed	Acetone ppbv	Benzene ppbv	Benzyl chloride ppbv	Bromodichloromethane ppbv	Bromoform ppbv	Bromomethane ppbv	2-Butanone (MEK) ppbv	C2 as Ethane ppmv	C3 as Propane ppmv	
Wellfield/Influent	5/12/06	150	710	ND<50	ND<25	ND<25	ND<25	50	ND<1.0	-	
	5/22/06	21	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<5.0	-	-	
	2/12/07	ND<420	800	ND<39	ND<30	ND<19	ND<52	ND<68	ND<0.50	2.2	
	3/1/07	110	79	ND<3.2	ND<2.5	ND<1.6	ND<4.3	21	ND<0.50	ND<0.50	
	4/11/07	ND<110	110	ND<9.7	ND<7.5	ND<4.8	ND<13	ND<17	ND<0.50	0.64	
	4/26/07	ND<600	200	ND<55	ND<43	ND<28	ND<74	ND<97	ND<0.50	0.62	
	5/10/07	ND<300	110	ND<28	ND<21	ND<14	ND<37	ND<48	ND<0.50	ND<0.50	
	5/24/07	ND<300	110	ND<28	ND<21	ND<14	ND<37	ND<48	ND<0.50	ND<0.50	
	6/7/07	ND<140	70	ND<13	ND<10	ND<6.5	ND<17	ND<23	ND<0.50	ND<0.50	
	2/19/08	ND<1100	790	ND<48	ND<37	ND<24	ND<64	ND<85	ND<0.50	ND<0.50	
	4/21/08	ND<420	340	ND<19	ND<15	ND<9.7	ND<26	ND<34	ND<0.50	ND<0.50	
	7/16/08	ND<210	ND<160	ND<97	ND<75	ND<53	ND<130	ND<190	ND<0.50	ND<0.50	
	4/6/09	95	100	ND<3.9	ND<3.0	ND<1.9	ND<5.2	31	ND<0.50	ND<0.50	
	7/22/09	ND<84	97	ND<3.9	ND<3.0	ND<1.9	ND<5.2	6.9	ND<0.50	ND<0.50	
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<110	84	ND<4.8	ND<3.7	ND<2.4	ND<6.4	20	ND<0.50	ND<0.50	
	3/25/10	ND<140	230	ND<6.4	ND<5	ND<3.2	ND<8.6	ND<110	ND<0.50	ND<0.50	
	8/27/10	ND<70	110	ND<3.2	ND<2.5	ND<1.6	ND<4.3	ND<57	ND<0.50	ND<0.50	
	5/11/11	110	110	ND<12	ND<12	ND<12	ND<12	26	-	-	
	7/25/11	90	71	ND<10	ND<10	ND<10	ND<10	ND<10	ND<0.50	ND<0.50	
	8/24/11	18	79	ND<2.5	ND<2.5	ND<2.5	ND<2.5	6.7	41	74	
	10/20/11	27	120	ND<2.5	ND<2.5	ND<2.5	ND<2.5	9.6	420	ND<12	
	11/17/11	36.6	68.4	ND<5.0	ND<5.0	ND<5.0	ND<5.0	18.4	36.9	48.7	
	12/20/11	850	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	120	ND<2.5	
1/17/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	18	ND<0.50		
2/14/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<0.50	ND<0.50		
3/20/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	22	ND<0.50		
4/17/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<0.50	ND<0.50		
5/22/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	47	ND<1.0		
6/26/2012	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	3.4	ND<1.0		
Influent	6/14/06	2400	ND<220	ND<450	ND<220	ND<220	ND<220	ND<450	-	-	
	7/6/06	530	56	ND<4.0	ND<2.0	ND<2.0	ND<2.0	88	-	-	
	2/12/07	ND<420	660	ND<39	ND<30	ND<19	ND<52	99	ND<0.50	1.8	
	3/1/07	150	110	ND<4.8	ND<3.7	ND<2.4	ND<6.4	32	ND<0.50	ND<0.50	
	4/11/07	50	14	ND<1.1	ND<0.85	ND<0.55	ND<1.5	32	ND<0.50	ND<0.50	
	4/26/07	100	23	ND<7.7	ND<6.0	ND<3.9	ND<10	39	ND<0.50	ND<0.50	
	5/10/07	ND<60	30	ND<5.5	ND<4.3	ND<2.8	ND<7.4	11	ND<0.50	ND<0.50	
	5/24/07	ND<60	31	ND<5.5	ND<4.3	ND<2.8	ND<7.4	ND<9.7	ND<0.50	ND<0.50	
	6/7/07	ND<42	16	ND<3.9	ND<3	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50	
	11/6/07	ND<2100	1000	ND<190	ND<150	ND<97	ND<260	ND<340	ND<1	ND<1	
	12/6/07	ND<600	890	ND<55	ND<43	ND<28	ND<74	ND<97	ND<0.50	ND<0.50	
	1/16/08	ND<1100	340	ND<48	ND<37	ND<24	ND<64	ND<85	ND<0.50	ND<0.50	
	2/19/08	ND<350	250	ND<16	ND<12	ND<8.1	ND<21	ND<28	ND<0.50	ND<0.50	
	4/21/08	ND<420	180	ND<19	ND<15	ND<9.7	ND<26	ND<34	ND<0.50	ND<0.50	
	6/24/08	ND<420	250	ND<19	ND<15	ND<9.7	ND<26	ND<34	ND<0.50	ND<0.50	
	7/16/08	ND<11000	ND<780	ND<480	ND<370	ND<240	ND<640	ND<850	ND<0.50	ND<0.50	
	4/6/09	ND<84	44	ND<3.9	ND<3.0	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50	
	7/22/09	ND<84	41	ND<3.9	ND<3.0	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50	
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<140	38	ND<6.4	ND<5	ND<3.2	ND<8.6	ND<11	ND<0.50	ND<0.50	

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		Acetone	Benzene	Benzyl chloride	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	C2 as Ethane	C3 as Propane
Sample ID	Date Analyzed	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppmv	ppmv
Influent	3/25/10	ND<140	66	ND<6.4	ND<5	ND<3.2	ND<8.6	ND<110	ND<0.50	ND<0.50
	8/27/10	ND<110	61	ND<4.8	ND<3.7	ND<2.4	ND<6.4	ND<85	ND<0.50	ND<0.50
	5/11/11	75	51	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	-
	7/25/11	59	30	ND<10	ND<10	ND<10	ND<10	ND<10	ND<0.50	ND<0.50
	8/24/11	35	43	ND<2.5	ND<2.5	ND<2.5	ND<2.5	13	59	86
	9/13/11	22	54	ND<2.5	ND<2.5	ND<2.5	ND<2.5	7.5	270	260
	10/20/11	22	63	ND<2.5	ND<2.5	ND<2.5	ND<2.5	6.4	460	ND<12
	11/17/11	15.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	8	93.4	61
	12/20/11	ND<50	74	ND<50	ND<50	ND<50	ND<50	ND<50	33	ND<0.50
	1/17/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	26	ND<0.50
	2/14/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<0.50	ND<0.50
	3/20/2012	58	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<0.50	ND<0.50
	4/17/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<1.0	ND<1.0
	5/22/2012	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120	41	ND<1.0
6/26/2012	ND<250	320	ND<250	ND<250	ND<250	ND<250	ND<250	30	ND<1.0	
Mid GAC	5/12/06	ND<45	590	ND<45	ND<22	ND<22	ND<22	59	ND<1.0	-
	5/22/06	23	5.2	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<5.0	-	-
	6/14/06	ND<20	ND<10	ND<20	ND<10	ND<10	ND<10	ND<20	-	-
	7/6/06	2200	3.5	ND<1.0	ND<0.50	ND<0.50	ND<0.50	190	-	-
	2/12/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	3/1/07	ND<84	ND<13	ND<7.7	ND<6.0	ND<3.9	ND<10	ND<14	ND<0.50	ND<0.50
	4/11/07	110	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	66	ND<0.50	ND<0.50
	4/26/07	230	ND<26	ND<16	ND<12	ND<8.1	ND<21	94	ND<0.50	ND<0.50
	5/10/07	100	ND<13	ND<7.7	ND<6.0	ND<3.9	ND<10	41	ND<0.50	ND<0.50
	5/24/07	ND<47	13	ND<4.3	ND<3.3	ND<2.2	ND<5.7	ND<7.5	ND<0.50	ND<0.50
	6/7/07	ND<42	19	ND<3.9	ND<3	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50
	11/6/07	19	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	9.9	ND<1	1.2
	12/6/07	ND<600	250	ND<55	ND<43	ND<28	ND<74	ND<97	ND<0.50	ND<0.50
	1/16/08	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	ND<1.7	ND<0.50	ND<0.50
	2/19/08	ND<58	ND<4.3	ND<0.54	ND<0.41	ND<0.3	ND<3.6	11	ND<0.50	ND<0.50
	4/21/08	ND<350	26	ND<16	ND<12	ND<8.1	ND<21	56	ND<0.50	ND<0.50
	7/16/08	ND<21000	ND<1600	ND<970	ND<750	ND<480	ND<1300	ND<1700	ND<0.50	ND<0.50
	4/6/09	ND<420	ND<31	ND<19	ND<15	ND<9.7	ND<26	83	ND<0.50	ND<0.50
	7/22/09	ND<84	ND<6.3	ND<3.9	ND<3.0	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	ND<110	ND<7.8	ND<4.8	ND<3.7	ND<2.4	ND<6.4	ND<8.5	ND<0.50	ND<0.50
	3/25/10	ND<84	ND<6.3	ND<3.9	ND<3.0	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50
	8/27/10	ND<140	ND<10	ND<6.4	ND<5.0	ND<3.2	ND<8.6	ND<110	ND<0.50	ND<0.50
	5/11/11	76	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	-	-
	7/25/11	74	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<0.50	ND<0.50
	8/24/11	20	0.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3	57	81
	9/13/11	28	34	ND<2.5	ND<2.5	ND<2.5	ND<2.5	7.4	210	160
	10/20/11	14	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	490	ND<12
	11/17/11	44.8	40.2	ND<5.0	ND<5.0	ND<5.0	ND<5.0	26.4	75.3	107
	12/20/11	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	30	ND<0.50
1/17/2012	540	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	24	ND<0.50	
2/14/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<0.50	ND<0.50	
3/20/2012	52	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	
4/17/2012	ND<100	120	ND<100	ND<100	ND<100	ND<100	ND<100	ND<0.50	ND<0.50	
5/22/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	48	ND<1.0	
6/26/2012	2800	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	35	ND<1.0	

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		Acetone	Benzene	Benzyl chloride	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	C2 as Ethane	C3 as Propane
Sample ID	Date Analyzed	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppmv	ppmv
Post GAC	5/12/06	ND<15	300	ND<15	ND<7.5	ND<7.5	ND<7.5	33	ND<1.0	-
	5/22/06	7600	ND<500	ND<1000	ND<500	ND<500	ND<500	ND<1000	-	-
	6/14/06	20	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	-	-
	7/6/06	560	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	170	-	-
	2/12/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	3/1/07	ND<84	ND<13	ND<7.7	ND<6.0	ND<3.9	ND<10	ND<14	ND<0.50	0.83
	4/11/07	51	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	35	ND<0.50	ND<0.50
	4/26/07	ND<130	ND<20	ND<12	ND<9.3	ND<6.0	ND<16	55	ND<0.50	ND<0.50
	5/10/07	410	ND<18	ND<11	ND<8.8	ND<5.7	ND<15	180	ND<0.50	ND<0.50
	5/24/07	ND<84	ND<13	ND<7.7	ND<6.0	ND<3.9	ND<10	15	ND<0.50	ND<0.50
	6/7/07	36	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	17	ND<0.50	ND<0.50
	11/6/07	18	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	7.5	ND<0.50	ND<0.50
	12/6/07	ND<600	ND<89	ND<55	ND<43	ND<28	ND<74	ND<97	ND<0.50	ND<0.50
	1/16/08	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	1.8	ND<0.50	ND<0.50
	2/22/08	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	4.4	ND<0.50	ND<0.50
	4/21/08	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	1.9	ND<0.50	ND<0.50
	7/16/08	190	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	110	ND<0.50	ND<0.50
	4/6/09	200	ND<6.3	ND<3.9	ND<3.0	ND<1.9	ND<5.2	68	ND<0.50	ND<0.50
	7/22/09	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	ND<1.7	ND<0.50	ND<0.50
	8/24/09	ND<84	ND<6.3	ND<3.9	ND<3.0	ND<1.9	ND<5.2	ND<6.8	ND<0.50	ND<0.50
	10/20/09	ND<30	ND<2.2	ND<1.4	ND<1.1	ND<0.69	ND<1.8	ND<2.4	ND<0.50	ND<0.50
	3/25/10	25	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	ND<17	ND<0.50	ND<0.50
	8/27/10	ND<21	ND<1.6	ND<0.97	ND<0.75	ND<0.48	ND<1.3	ND<17	ND<0.50	ND<0.50
	5/11/11	50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	11	-	-
	7/25/11	76	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<0.50	ND<0.50
	8/24/11	27	0.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	11	49	38
	9/13/11	18	1.8	ND<2.5	ND<2.5	ND<2.5	ND<2.5	6.7	170	85
	10/20/11	17	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2.8	160	ND<12
	11/17/11	19.2	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13	157	237
	12/20/11	17	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<0.50	ND<0.50
1/17/2012	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	23	ND<0.50	
2/14/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	
3/20/2012	94	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<0.50	ND<0.50	
4/17/2012	70	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	ND<1.0	
5/22/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	49	ND<1.0	
6/26/2012	51	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	17	ND<0.50	ND<0.50	
Mid PP	6/14/06	20	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	-	-
	7/6/06	480	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	140	-	-
	2/12/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	3/1/07	-	ND<7.8	ND<4.8	-	-	-	-	ND<0.50	0.54
	4/11/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	4/26/07	-	ND<10	ND<6.4	-	-	-	-	ND<0.50	ND<0.50
	5/10/07	-	ND<10	ND<6.4	-	-	-	-	ND<0.50	ND<0.50
	5/24/07	-	ND<7.0	ND<4.3	-	-	-	-	ND<0.50	ND<0.50
	6/7/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	11/6/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<1	ND<1
	1/16/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	2/19/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	4/21/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	7/16/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
4/6/09	-	ND<3.1	ND<1.9	-	-	-	-	ND<0.50	ND<0.50	
7/22/09	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50	

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Sample ID	Date Analyzed	Acetone ppbv	Benzene ppbv	Benzyl chloride ppbv	Bromodichloromethane ppbv	Bromoform ppbv	Bromomethane ppbv	2-Butanone (MEK) ppbv	C2 as Ethane ppmv	C3 as Propane ppmv
Mid PP	8/24/09	-	ND<6.3	ND<3.9	-	-	-	-	ND<0.50	ND<0.50
	10/20/09	-	ND<2	ND<1.2	-	-	-	-	ND<0.50	ND<0.50
	3/25/10	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	8/27/10	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	5/11/11	-	2	ND<1.0	-	-	-	-	-	-
	7/25/11	-	ND<2.5	ND<2.5	-	-	-	-	ND<0.50	ND<0.50
	8/24/11	-	0.5	ND<2.5	-	-	-	-	58	37
	9/13/11	-	1.8	ND<2.5	-	-	-	-	240	170
	10/20/11	-	ND<2.5	ND<2.5	-	-	-	-	430	ND<12
	11/17/11	-	ND<5.0	ND<5.0	-	-	-	-	168	367
	12/20/11	-	ND<5.0	ND<5.0	-	-	-	-	21	ND<0.50
	1/17/2012	-	ND<25	ND<25	-	-	-	-	26	ND<0.50
	2/14/2012	-	ND<50	ND<50	-	-	-	-	ND<0.50	ND<0.50
	3/20/2012	-	ND<25	ND<25	-	-	-	-	ND<0.50	ND<0.50
	4/17/2012	-	ND<50	ND<50	-	-	-	-	ND<0.50	ND<1.0
5/22/2012	-	ND<50	ND<50	-	-	-	-	ND<0.50	ND<0.50	
6/26/2012	-	ND<5.0	ND<5.0	-	-	-	-	ND<0.50	ND<0.50	
Effluent	5/22/06	35	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	2.5	-	-
	6/14/06	16	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	2.3	-	-
	7/6/06	300	0.67	ND<1.0	ND<0.50	ND<0.50	ND<0.50	74	-	-
	2/12/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	3/1/07	-	ND<3.9	ND<2.4	-	-	-	-	ND<0.50	ND<0.50
	4/11/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	4/26/07	-	ND<7.0	ND<4.3	-	-	-	-	ND<0.50	ND<0.50
	5/10/07	-	ND<7.0	ND<4.3	-	-	-	-	ND<0.50	ND<0.50
	5/24/07	-	ND<7.0	ND<4.3	-	-	-	-	ND<0.50	ND<0.50
	6/7/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	11/6/07	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	12/6/07	3500	ND<89	ND<55	ND<43	ND<28	ND<74	ND<97	ND<0.50	ND<0.50
	1/16/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	2/19/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	4/21/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	6/24/08	-	ND<31	ND<19	-	-	-	-	ND<0.50	ND<0.50
	7/16/08	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	4/6/09	-	ND<6.3	ND<3.9	-	-	-	-	ND<0.50	ND<0.50
	7/22/09	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	8/24/09	-	ND<6.3	ND<3.9	-	-	-	-	ND<0.50	ND<0.50
	10/20/09	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	3/25/10	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	8/27/10	-	ND<1.6	ND<0.97	-	-	-	-	ND<0.50	ND<0.50
	9/24/10	-	ND<31	ND<19	-	-	-	-	ND<0.50	ND<0.50
	5/11/11	-	ND<1.0	ND<1.0	-	-	-	-	-	-
	7/25/11	-	ND<2.5	ND<2.5	-	-	-	-	ND<0.50	ND<0.50
	8/24/11	-	0.35	ND<1.2	-	-	-	-	36	14
	9/13/11	-	1.8	ND<2.5	-	-	-	-	270	240
	10/20/11	-	ND<2.5	ND<2.5	-	-	-	-	300	ND<12
	11/17/11	-	ND<5.0	ND<5.0	-	-	-	-	111	162
	12/20/11	-	ND<2.5	ND<2.5	-	-	-	-	ND<0.50	ND<0.50
	1/17/2012	-	ND<2.5	ND<2.5	-	-	-	-	ND<0.50	ND<0.50
2/14/2012	-	ND<25	ND<25	-	-	-	-	ND<0.50	ND<0.50	
3/20/2012	-	ND<25	ND<25	-	-	-	-	ND<0.50	ND<0.50	
4/17/2012	-	ND<25	ND<25	-	-	-	-	ND<0.50	ND<0.50	
5/22/2012	-	ND<25	ND<25	-	-	-	-	40	ND<1.0	
6/26/2012	-	ND<2.5	ND<2.5	-	-	-	-	ND<0.50	ND<0.50	
Discharge Limits	-	NA	450	210	NA	NA	NA	NA	NA	NA

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Sample ID	Date Analyzed	C4 as n-Butane ppmv	C5 as n-Pentane ppmv	C6 as n-Hexane ppmv	>C6 as n-Hexane ppmv	C2 through C6+ ² ppmv	C3 through C6 ppbv	C6 through C12 ppbv	Carbon dioxide ppmv	Carbon disulfide ppbv	Carbon monoxide ppmv	Carbon Tetrachloride ppbv	
Wellfield/Influent	5/12/06	-	-	-	-	-	-	-	160000	110	ND<1000	ND<25	
	5/22/06	-	-	-	-	-	-	-	-	8.9	-	ND<2.5	
	2/12/07	29	5.2	26	540	602.65	-	-	-	ND<64	-	ND<32	
	3/1/07	2.5	0.58	2.8	28	34.38	-	-	-	160	-	ND<2.7	
	4/11/07	6.1	1.1	4.2	59	71.29	-	-	-	290	-	ND<8.0	
	4/26/07	6	1.5	7.5	91	106.87	-	-	-	580	-	ND<45	
	5/10/07	2.5	0.7	5.2	65	73.90	-	-	-	320	-	ND<23	
	5/24/07	1.9	1.1	5.7	89	98.20	-	-	-	490	-	ND<23	
	6/7/07	0.95	ND<0.50	3.1	55	59.80	-	-	-	340	-	ND<11	
	2/19/08	1.1	1.2	23	860	885.80	-	-	-	470	-	ND<40	
	4/21/08	0.63	ND<0.50	8.7	280	290.08	-	-	-	250	-	ND<16	
	7/16/08	0.97	0.89	12	580	594.36	-	-	-	820	-	ND<80	
	4/6/09	0.77	ND<0.50	4.7	160	166.22	-	-	-	110	-	ND<3.2	
	7/22/09	ND<0.50	ND<0.50	3.7	220	224.70	-	-	-	530	-	ND<3.2	
	8/24/09	-	-	-	-	-	-	-	-	-	-	-	-
	10/20/09	0.68	ND<0.50	4.2	230	235.63	-	-	-	400	-	-	ND<4
	3/25/10	0.6	ND<0.50	3.2	160	164.55	-	-	-	270	-	-	ND<5.3
	8/27/10	ND<0.50	ND<0.50	3.4	220	224.40	-	-	-	160	-	-	ND<2.7
	5/11/11	-	-	-	-	-	-	19000	190000	-	-	-	75
	7/25/11	ND<0.50	ND<0.50	0.65	0.65	2.30	-	-	-	240	-	-	ND<10
	8/24/11	ND<5.0	ND<5.0	ND<5.0	100	222.50	-	-	-	240	-	-	0.4
	10/20/11	ND<12	ND<12	ND<12	88	532.00	-	-	-	300	-	-	ND<2.5
	11/17/11	ND<2.5	ND<2.5	ND<2.5	42.3	131.65	-	-	-	119	-	-	ND<5.0
12/20/11	ND<2.5	ND<2.5	ND<2.5	14	139.00	-	-	-	ND<200	-	-	ND<200	
1/17/2012	ND<0.50	ND<0.50	0.5	22	41.25	-	-	-	ND<200	-	-	ND<200	
2/14/2012	ND<0.50	ND<0.50	0.29	13	14.29	-	-	-	ND<200	-	-	ND<200	
3/20/2012	ND<0.50	ND<0.50	1.1	82	105.85	-	-	-	ND<100	-	-	ND<100	
4/17/2012	ND<0.50	ND<0.50	0.76	75	76.76	-	-	-	ND<200	-	-	ND<200	
5/22/2012	ND<1.0	ND<1.0	ND<1.0	34	83.00	-	-	-	ND<200	-	-	ND<200	
6/26/2012	ND<1.0	ND<1.0	6.3	480	491.20	-	-	-	ND<2000	-	-	ND<2000	
Influent	6/14/06	-	-	-	-	-	-	-	-	1100	-	ND<220	
	7/6/06	-	-	-	-	-	-	-	-	7.9	-	ND<2.0	
	2/12/07	23	4.3	21	450	500.35	-	-	-	ND<64	-	ND<32	
	3/1/07	3.4	0.84	3.6	35	43.34	-	-	-	220	-	ND<4.0	
	4/11/07	0.77	ND<0.50	0.52	5.8	7.84	-	-	-	38	-	ND<0.91	
	4/26/07	0.88	ND<0.50	1.2	8.5	11.33	-	-	-	71	-	ND<6.4	
	5/10/07	0.61	ND<0.50	1.3	13	15.66	-	-	-	99	-	ND<4.5	
	5/24/07	0.53	ND<0.50	1.8	22	25.08	-	-	-	150	-	ND<4.5	
	6/7/07	ND<0.50	ND<0.50	0.75	12	13.75	-	-	-	81	-	ND<3.2	
	11/6/07	2.4	2.9	36	1200	1242.30	-	-	-	ND<320	-	ND<160	
	12/6/07	1.2	1.6	24	830	857.30	-	-	-	490	-	ND<45	
	1/16/08	0.68	0.78	12	410	423.96	-	-	-	140	-	ND<40	
	2/19/08	ND<0.50	ND<0.50	8.1	310	319.10	-	-	-	130	-	ND<13	
	4/21/08	ND<0.50	ND<0.50	5.7	250	256.70	-	-	-	130	-	ND<16	
	6/24/08	0.51	ND<0.50	7.6	540	548.86	-	-	-	300	-	ND<16	
	7/16/08	0.6	0.65	6.4	310	318.15	-	-	-	ND<800	-	ND<400	
	4/6/09	ND<0.50	ND<0.50	2.1	73	76.10	-	-	-	47	-	ND<3.2	
	7/22/09	ND<0.50	ND<0.50	2	110	113.00	-	-	-	260	-	ND<3.2	
	8/24/09	-	-	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<0.50	ND<0.50	2.1	110	113.10	-	-	-	180	-	-	ND<5.3

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Sample ID	Date Analyzed	C4 as n-Butane ppmv	C5 as n-Pentane ppmv	C6 as n-Hexane ppmv	>C6 as n-Hexane ppmv	C2 through C6+ ² ppmv	C3 through C6 ppbv	C6 through C12 ppbv	Carbon dioxide ppmv	Carbon disulfide ppbv	Carbon monoxide ppmv	Carbon Tetrachloride ppbv	
Influent	3/25/10	ND<0.50	ND<0.50	1.1	46	48.10	-	-	-	ND<110	-	5.7	
	8/27/10	ND<0.50	ND<0.50	2.2	150	153.20	-	-	-	100	-	ND<4.0	
	5/11/11	-	-	-	-	-	9100	98000	-	35	-	ND<5.0	
	7/25/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	93	-	ND<10	
	8/24/11	ND<5.0	ND<5.0	0.43	38	188.43	-	-	-	110	-	0.5	
	9/13/11	ND<5.0	ND<5.0	ND<5.0	210	747.50	-	-	-	120	-	0.4	
	10/20/11	ND<12	ND<12	ND<12	ND<25	496.50	-	-	-	110	-	ND<2.5	
	11/17/11	ND<2.5	ND<2.5	ND<2.5	ND<5.0	160.65	-	-	-	99.6	-	ND<5.0	
	12/20/11	ND<0.50	ND<0.50	ND<0.50	13	47.00	-	-	-	86	-	ND<50	
	1/17/2012	ND<0.50	ND<0.50	0.45	25	52.20	-	-	-	ND<50	-	ND<50	
	2/14/2012	ND<0.50	ND<0.50	ND<0.50	5.6	6.85	-	-	-	ND<100	-	ND<100	
	3/20/2012	ND<0.50	ND<0.50	0.51	48	49.51	-	-	-	ND<50	-	ND<50	
	4/17/2012	ND<1.0	ND<1.0	0.62	40	42.62	-	-	-	ND<100	-	ND<100	
	5/22/2012	ND<1.0	ND<1.0	0.47	51	93.97	-	-	-	ND<120	-	ND<120	
6/26/2012	ND<1.0	ND<1.0	1.8	160	193.30	-	-	-	ND<250	-	ND<250		
Mid GAC	5/12/06	-	-	-	-	-	-	-	160000	77	ND<1000	ND<22	
	5/22/06	-	-	-	-	-	-	-	-	7.2	-	ND<2.5	
	6/14/06	-	-	-	-	-	-	-	-	ND<10	-	ND<10	
	7/6/06	-	-	-	-	-	-	-	-	7.8	-	ND<0.50	
	2/12/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	3/1/07	6.4	0.88	1.4	3.8	12.98	-	-	-	15	-	ND<6.4	
	4/1/07	0.58	ND<0.50	ND<0.50	ND<1.0	2.08	-	-	-	6.5	-	ND<0.80	
	4/26/07	1.5	ND<0.50	ND<0.50	ND<1.0	3.00	-	-	-	ND<27	-	ND<13	
	5/10/07	0.96	ND<0.50	ND<0.50	ND<1.0	2.46	-	-	-	55	-	ND<6.4	
	5/24/07	0.64	ND<0.50	1.2	6.3	8.89	-	-	-	180	-	ND<3.5	
	6/7/07	ND<0.50	ND<0.50	0.98	7.8	9.78	-	-	-	95	-	ND<3.2	
	11/6/07	2.3	ND<1	ND<1	ND<2	6.00	-	-	-	4.9	-	ND<0.8	
	12/6/07	1.7	3.9	53	730	789.10	-	-	-	670	-	ND<45	
	1/16/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	ND<1.6	-	ND<0.80	
	2/19/08	0.62	0.94	7	17	26.06	-	-	-	50	-	ND<2.2	
	4/21/08	ND<0.50	ND<0.50	5.9	190	196.90	-	-	-	82	-	ND<13	
	7/16/08	0.64	1.3	16	550	568.44	-	-	-	ND<1600	-	ND<800	
	4/6/09	ND<0.50	ND<0.50	10	160	171.00	-	-	-	84	-	ND<16	
	7/22/09	ND<0.50	ND<0.50	5.7	17	23.70	-	-	-	170	-	ND<3.2	
	8/24/09	-	-	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<0.50	0.57	22	67	90.32	-	-	-	360	-	ND<4	
	3/25/10	ND<0.50	ND<0.50	3.5	18	22.50	-	-	-	96	-	ND<3.2	
	8/27/10	ND<0.50	ND<0.50	2.9	120	123.90	-	-	-	ND<110	-	ND<5.3	
	5/11/11	-	-	-	-	-	110000	42000	-	80	-	ND<50	
	7/25/11	ND<0.50	ND<0.50	2.4	2.4	5.80	-	-	-	78	-	ND<10	
	8/24/11	ND<0.50	ND<0.50	0.28	8.4	147.18	-	-	-	130	-	0.6	
	9/13/11	ND<5.0	ND<5.0	2.8	340	717.80	-	-	-	240	-	0.7	
	10/20/11	ND<12	ND<12	ND<12	110	624.00	-	-	-	170	-	ND<2.5	
	11/17/11	ND<2.5	ND<2.5	ND<2.5	19.3	205.35	-	-	-	58	-	ND<5.0	
	12/20/11	ND<0.50	ND<0.50	ND<0.50	3.2	205.35	-	-	-	140	-	ND<100	
1/17/2012	ND<0.50	ND<0.50	0.25	6.7	31.70	-	-	-	ND<100	-	ND<100		
2/14/2012	ND<0.50	ND<0.50	0.24	17	18.24	-	-	-	ND<100	-	ND<100		
3/20/2012	ND<0.50	ND<0.50	0.49	66	67.49	-	-	-	ND<50	-	ND<50		
4/17/2012	ND<0.50	ND<0.50	0.33	56	57.33	-	-	-	ND<100	-	ND<100		
5/22/2012	ND<1.0	ND<1.0	ND<1.0	33	83.00	-	-	-	ND<100	-	ND<100		
6/26/2012	ND<1.0	ND<1.0	3	360	399.50	-	-	-	ND<1000	-	ND<1000		

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Sample ID	Date Analyzed	C4 as n-Butane ppmv	C5 as n-Pentane ppmv	C6 as n-Hexane ppmv	>C6 as n-Hexane ppmv	C2 through C6+ ² ppmv	C3 through C6 ppbv	C6 through C12 ppbv	Carbon dioxide ppmv	Carbon disulfide ppbv	Carbon monoxide ppmv	Carbon Tetrachloride ppbv	
Post GAC	5/12/06	-	-	-	-	-	-	-	150000	33	ND<1000	ND<7.5	
	5/22/06	-	-	-	-	-	-	-	-	3100	-	ND<500	
	6/14/06	-	-	-	-	-	-	-	-	5	-	ND<2.0	
	7/6/06	-	-	-	-	-	-	-	-	9.3	-	ND<0.50	
	2/12/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	3/1/07	8.1	ND<0.50	ND<0.50	2.2	11.88	-	-	-	ND<13	-	ND<6.4	
	4/11/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	2.5	-	ND<0.80	
	4/26/07	1.3	ND<0.50	ND<0.50	ND<1.0	2.80	-	-	-	ND<20	-	ND<9.9	
	5/10/07	1.1	ND<0.50	ND<0.50	ND<0.50	1.2	3.30	-	-	ND<19	-	ND<9.4	
	5/24/07	0.87	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.37	-	-	-	24	ND<6.4	
	6/7/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	69	-	ND<0.8	
	11/6/07	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1.75	-	-	-	4	-	ND<0.8	
	12/6/07	6.9	17	56	89	169.40	-	-	-	480	-	ND<45	
	1/16/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	ND<1.6	-	ND<0.80	
	2/22/08	ND<0.50	ND<0.50	ND<0.50	1.1	2.35	-	-	-	1.9	-	ND<0.80	
	4/21/08	0.63	ND<0.50	ND<0.50	0.7	2.8	4.88	-	-	-	20	ND<0.80	
	7/16/08	0.6	ND<0.50	ND<0.50	ND<0.50	5.7	7.30	-	-	-	5.2	ND<0.80	
	4/6/09	0.922	ND<0.50	ND<0.50	0.903	6.22	8.80	-	-	-	31	ND<3.2	
	7/22/09	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	24	-	ND<0.80	
	8/24/09	ND<0.50	0.77	3.6	17	22.12	-	-	-	630	-	ND<3.2	
	10/20/09	0.63	ND<0.50	ND<0.50	ND<0.50	4.6	6.23	-	-	-	15	ND<1.1	
	3/25/10	ND<0.50	ND<0.50	ND<0.50	1.3	2.55	-	-	-	160	-	ND<0.8	
	8/27/10	ND<0.50	ND<0.50	ND<0.50	5.1	6.35	-	-	-	52	-	ND<0.80	
	5/11/11	-	-	-	-	-	-	2400	2000	-	3	-	ND<1.0
	7/25/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	ND<2.5	-	ND<2.5	
	8/24/11	ND<0.50	ND<0.50	1.1	5.3	93.90	-	-	-	160	-	2.4	
	9/13/11	ND<5.0	ND<5.0	4.4	88	352.40	-	-	-	270	-	1.9	
	10/20/11	ND<12	ND<12	ND<12	ND<25	196.50	-	-	-	4	-	ND<2.5	
11/17/11	ND<2.5	ND<2.5	ND<2.5	10.2	407.95	-	-	-	68.2	-	ND<5.0		
12/20/11	ND<0.50	ND<0.50	0.48	13	13.48	-	-	-	82	-	ND<10		
1/17/2012	ND<0.50	ND<0.50	0.66	13	37.41	-	-	-	29	-	ND<10		
2/14/2012	ND<0.50	ND<0.50	0.39	15	16.39	-	-	-	74	-	ND<50		
3/20/2012	ND<0.50	ND<0.50	0.86	96	97.86	-	-	-	47	-	ND<25		
4/17/2012	ND<1.0	ND<1.0	0.73	62	64.73	-	-	-	62	-	ND<50		
5/22/2012	ND<1.0	ND<1.0	0.58	38	89.08	-	-	-	ND<50	-	ND<50		
6/26/2012	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	5	-	ND<5.0		
Mid PP	6/14/06	-	-	-	-	-	-	-	-	5.7	-	ND<2.0	
	7/6/06	-	-	-	-	-	-	-	-	7.1	-	ND<0.50	
	2/12/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	3/1/07	3.6	ND<0.50	ND<0.50	2.2	7.09	-	-	-	-	-	ND<4.0	
	4/11/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	4/26/07	0.86	ND<0.50	ND<0.50	ND<1.0	2.36	-	-	-	-	-	ND<5.3	
	5/10/07	0.93	0.71	0.68	1.5	4.32	-	-	-	-	-	ND<5.3	
	5/24/07	0.74	ND<0.50	ND<0.50	ND<1.0	2.24	-	-	-	-	-	ND<3.5	
	6/7/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.8	
	11/6/07	ND<1	ND<1	ND<1	ND<2	3.50	-	-	-	-	-	ND<0.8	
	1/16/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	2/19/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80	
	4/21/08	ND<0.50	ND<0.50	0.7	3.0	4.69	-	-	-	-	-	ND<0.80	
	7/16/08	ND<0.50	ND<0.50	ND<0.50	3.1	4.35	-	-	-	-	-	ND<0.80	
	4/6/09	ND<0.50	ND<0.50	0.84	6.1	7.94	-	-	-	-	-	ND<1.6	
7/22/09	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80		

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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		C4 as n-Butane	C5 as n-Pentane	C6 as n-Hexane	>C6 as n-Hexane	C2 through C6+ ²	C3 through C6	C6 through C12	Carbon dioxide	Carbon disulfide	Carbon monoxide	Carbon Tetrachloride
Sample ID	Date Analyzed	ppmv	ppmv	ppmv	ppmv	ppmv	ppbv	ppbv	ppmv	ppbv	ppmv	ppbv
Mid PP	8/24/09	ND<0.50	0.66	3.6	17	22.01	-	-	-	-	-	ND<3.2
	10/20/09	ND<0.50	ND<0.50	ND<0.50	4.6	5.85	-	-	-	-	-	ND<0.99
	3/25/10	ND<0.50	ND<0.50	ND<0.50	1.5	2.75	-	-	-	-	-	ND<0.8
	8/27/10	ND<0.50	ND<0.50	ND<0.50	7.1	8.35	-	-	-	-	-	ND<0.80
	5/11/11	-	-	-	-	-	2000	2100	-	-	-	ND<1.0
	7/25/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<2.5
	8/24/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	96.25	-	-	-	-	-	2.2
	9/13/11	ND<5.0	ND<5.0	9	150	574.00	-	-	-	-	-	1.9
	10/20/11	ND<12	ND<12	ND<12	ND<25	466.50	-	-	-	-	-	ND<2.5
	11/17/11	ND<2.5	ND<2.5	1.3	19.6	558.40	-	-	-	-	-	ND<5.0
	12/20/11	ND<0.50	0.26	0.92	12	34.68	-	-	-	-	-	ND<5.0
	1/17/2012	ND<0.50	ND<0.50	ND<0.50	15	42.00	-	-	-	-	-	ND<25
	2/14/2012	ND<0.50	ND<0.50	0.35	13	14.35	-	-	-	-	-	ND<50
	3/20/2012	ND<0.50	ND<0.50	0.54	64	65.54	-	-	-	-	-	ND<25
	4/17/2012	ND<1.0	ND<1.0	ND<1.0	11	13.50	-	-	-	-	-	ND<50
	5/22/2012	ND<0.50	ND<0.50	0.31	24	25.31	-	-	-	-	-	ND<50
6/26/2012	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<5.0	
Effluent	5/22/06	-	-	-	-	-	-	-	-	8.5	-	ND<1.0
	6/14/06	-	-	-	-	-	-	-	-	2.7	-	ND<0.50
	7/6/06	-	-	-	-	-	-	-	-	6.1	-	ND<0.50
	2/12/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80
	3/1/07	1.8	ND<0.50	ND<0.50	ND<1.0	3.30	-	-	-	-	-	ND<2.0
	4/11/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80
	4/26/07	0.55	ND<0.50	0.62	ND<1.0	2.42	-	-	-	-	-	ND<3.5
	5/10/07	0.6	ND<0.50	ND<0.50	ND<1.0	2.10	-	-	-	-	-	ND<3.5
	5/24/07	0.58	ND<0.50	ND<0.50	ND<1.0	2.08	-	-	-	-	-	ND<3.5
	6/7/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.8
	11/6/07	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.8
	12/6/07	1.7	19	58	93	172.20	-	-	-	510	-	ND<45
	1/16/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80
	2/19/08	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80
	4/21/08	ND<0.50	ND<0.50	0.8	3.3	5.14	-	-	-	-	-	ND<0.80
	6/24/08	0.81	0.63	24	230	255.94	-	-	-	-	-	ND<16
	7/16/08	ND<0.50	ND<0.50	ND<0.50	2.8	4.05	-	-	-	-	-	ND<0.80
	4/6/09	ND<0.50	ND<0.50	0.84	6.1	7.94	-	-	-	-	-	ND<3.2
	7/22/09	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<0.80
	8/24/09	ND<0.50	0.66	4.2	17	22.61	-	-	-	-	-	ND<3.2
	10/20/09	ND<0.50	ND<0.50	0.51	3.5	5.01	-	-	-	-	-	ND<0.80
	3/25/10	ND<0.50	ND<0.50	ND<0.50	1.9	3.15	-	-	-	-	-	ND<0.80
	8/27/10	ND<0.50	ND<0.50	ND<0.50	4.2	5.45	-	-	-	-	-	ND<0.80
	9/24/10	ND<0.50	1.2	41	70	112.95	-	-	-	-	-	19
	5/11/11	-	-	-	-	-	2000	1300	-	-	-	ND<1.0
	7/25/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<2.5
	8/24/11	0.81	0.69	0.98	5.8	58.28	-	-	-	-	-	3
	9/13/11	ND<5.0	ND<5.0	12	210	737.00	-	-	-	-	-	2.9
	10/20/11	ND<12	ND<12	ND<12	ND<25	336.50	-	-	-	-	-	ND<2.5
	11/17/11	ND<2.5	ND<2.5	2	39.6	317.10	-	-	-	-	-	ND<5.0
12/20/11	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<2.5	
1/17/2012	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<2.5	
2/14/2012	ND<0.50	ND<0.50	1.2	43	45.20	-	-	-	-	-	ND<25	
3/20/2012	ND<0.50	ND<0.50	0.6	54	55.60	-	-	-	-	-	ND<25	
4/17/2012	ND<0.50	ND<0.50	0.41	54	55.41	-	-	-	-	-	ND<25	
5/22/2012	ND<1.0	ND<1.0	ND<1.0	25	67.00	-	-	-	-	-	ND<25	
6/26/2012	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.75	-	-	-	-	-	ND<2.5	
Discharge Limits	-	NA	NA	NA	NA	NA			NA	NA	NA	210

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Chlorobenzene ppbv	Chloroethane ppbv	Chloroform ppbv	Chloromethane ppbv	Dibromochloromethane ppbv	1,2-Dibromoethane (EDB) ppbv	1,2-Dichlorobenzene ppbv	1,3-Dichlorobenzene ppbv	1,4-Dichlorobenzene ppbv	
Wellfield/Influent	5/12/06	170	210	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	
	5/22/06	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
	2/12/07	ND<43	140	ND<41	ND<97	ND<23	ND<26	ND<33	ND<33	ND<33	
	3/1/07	ND<3.6	20	ND<3.4	ND<8.1	ND<2.0	ND<2.2	ND<2.8	ND<2.8	ND<2.8	
	4/11/07	ND<11	33	ND<10	ND<24	ND<5.9	ND<6.5	ND<8.3	ND<8.3	ND<8.3	
	4/26/07	ND<62	ND<110	ND<59	ND<140	ND<34	ND<37	ND<48	ND<48	ND<48	
	5/10/07	ND<31	ND<54	ND<29	ND<69	ND<17	ND<19	ND<24	ND<24	ND<24	
	5/24/07	ND<31	ND<54	ND<29	ND<69	ND<17	ND<19	ND<24	ND<24	ND<24	
	6/7/07	ND<14	ND<25	ND<14	ND<32	ND<7.8	ND<8.7	ND<11	ND<11	ND<11	
	2/19/08	ND<54	ND<95	ND<51	ND<120	ND<29	ND<33	ND<42	ND<42	ND<42	
	4/21/08	ND<22	ND<38	ND<20	ND<48	ND<12	ND<13	ND<17	ND<17	ND<17	
	7/16/08	ND<110	ND<190	ND<110	ND<240	ND<59	ND<65	ND<83	ND<83	ND<83	
	4/6/09	ND<4.3	21	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3	
	7/22/09	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3	
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<5.4	ND<9.5	ND<5.1	ND<12	ND<2.9	ND<3.3	ND<4.2	ND<4.2	ND<4.2	
	3/25/10	ND<7.2	ND<13	ND<6.8	ND<16	ND<3.9	ND<4.3	ND<5.5	ND<5.5	ND<5.5	
	8/27/10	ND<3.6	ND<6.3	ND<3.4	ND<8.1	ND<2.0	ND<2.2	ND<2.8	ND<2.8	ND<2.8	
	5/11/11	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	
	7/25/11	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	
8/24/11	ND<2.5	0.7	3.1	1.6	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5		
10/20/11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5		
11/17/11	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
12/20/11	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200		
1/17/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200		
2/14/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200		
3/20/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100		
4/17/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200		
5/22/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200		
6/26/2012	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000		
Influent	6/14/06	ND<220	ND<220	ND<220	ND<220	ND<220	ND<220	ND<220	ND<220	ND<220	
	7/6/06	ND<2.0	53	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	
	2/12/07	ND<43	110	ND<41	ND<97	ND<23	ND<26	ND<33	ND<33	ND<33	
	3/1/07	ND<5.4	29	ND<5.1	ND<12	ND<2.9	ND<3.3	ND<4.2	ND<4.2	ND<4.2	
	4/11/07	ND<1.2	4.2	ND<1.2	ND<2.8	ND<0.67	ND<0.74	ND<0.95	ND<0.95	ND<0.95	
	4/26/07	ND<8.7	ND<15	ND<8.2	ND<19	ND<4.7	ND<5.2	ND<6.7	ND<6.7	ND<6.7	
	5/10/07	ND<6.2	ND<11	ND<5.9	ND<14	ND<3.4	ND<3.7	ND<4.8	ND<4.8	ND<4.8	
	5/24/07	ND<6.2	ND<11	ND<5.9	ND<14	ND<3.4	ND<3.7	ND<4.8	ND<4.8	ND<4.8	
	6/7/07	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3	
	11/6/07	ND<220	ND<380	ND<200	ND<480	ND<120	ND<130	ND<170	ND<170	ND<170	
	12/6/07	ND<62	ND<110	ND<59	ND<140	ND<34	ND<37	ND<48	ND<48	ND<48	
	1/16/08	ND<54	ND<95	ND<51	ND<120	ND<29	ND<33	ND<42	ND<42	ND<42	
	2/19/08	ND<18	ND<32	ND<17	ND<40	ND<9.8	ND<11	ND<14	ND<14	ND<14	
	4/21/08	ND<22	ND<38	ND<20	ND<48	ND<12	ND<13	ND<17	ND<17	ND<17	
	6/24/08	ND<22	ND<38	ND<20	ND<48	ND<12	ND<13	ND<17	ND<17	ND<17	
	7/16/08	ND<540	ND<950	ND<510	ND<1200	ND<290	ND<330	ND<420	ND<420	ND<420	
	4/6/09	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3	
	7/22/09	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3	
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	ND<7.2	ND<13	ND<6.8	ND<16	ND<3.9	ND<4.3	ND<5.5	ND<5.5	ND<5.5	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Chlorobenzene ppbv	Chloroethane ppbv	Chloroform ppbv	Chloromethane ppbv	Dibromochloromethane ppbv	1,2-Dibromoethane (EDB) ppbv	1,2-Dichlorobenzene ppbv	1,3-Dichlorobenzene ppbv	1,4-Dichlorobenzene ppbv
Influent	3/25/10	ND<7.2	ND<13	ND<6.8	ND<16	ND<3.9	ND<4.3	ND<5.5	ND<5.5	ND<5.5
	8/27/10	ND<5.4	ND<9.5	ND<5.1	ND<12	ND<2.9	ND<3.3	ND<4.2	ND<4.2	ND<4.2
	5/11/11	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	7/25/11	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
	8/24/11	ND<2.5	ND<2.5	2.8	1	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	9/13/11	ND<2.5	ND<2.5	3.2	0.9	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	10/20/11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	11/17/11	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	12/20/11	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	1/17/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	2/14/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
	3/20/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	4/17/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
	5/22/2012	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120	ND<120
6/26/2012	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	
Mid GAC	5/12/06	130	220	ND<22	ND<22	ND<22	ND<22	ND<22	ND<22	ND<22
	5/22/06	ND<2.5	5.2	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	6/14/06	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
	7/6/06	ND<0.50	7.2	ND<0.50	2.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/12/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	3/1/07	ND<8.7	48	ND<8.2	ND<19	ND<4.7	ND<5.2	ND<6.7	ND<6.7	ND<6.7
	4/11/07	ND<1.1	2.9	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	4/26/07	ND<18	ND<32	ND<17	ND<40	ND<9.8	ND<11	ND<14	ND<14	ND<14
	5/10/07	ND<8.7	ND<15	ND<8.2	ND<19	ND<4.7	ND<5.2	ND<6.7	ND<6.7	ND<6.7
	5/24/07	ND<4.8	ND<8.4	ND<4.6	ND<11	ND<2.6	ND<2.9	ND<3.7	ND<3.7	ND<3.7
	6/7/07	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3
	11/6/07	ND<1.1	2.2	ND<1	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	12/6/07	ND<62	ND<110	ND<59	ND<140	ND<34	ND<37	ND<48	ND<48	ND<48
	1/16/08	ND<1.1	ND<1.9	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	2/19/08	ND<0.6	6.9	ND<2.8	ND<6.7	ND<0.33	ND<0.36	ND<0.46	ND<0.46	ND<0.46
	4/21/08	ND<18	ND<32	ND<17	ND<40	ND<9.8	ND<11	ND<14	ND<14	ND<14
	7/16/08	ND<1100	ND<1900	ND<1000	ND<2400	ND<590	ND<650	ND<830	ND<830	ND<830
	4/6/09	ND<22	ND<38	ND<20	ND<48	ND<12	ND<13	ND<17	ND<17	ND<17
	7/22/09	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	ND<5.4	ND<9.5	ND<5.1	ND<12	ND<2.9	ND<3.3	ND<4.2	ND<4.2	ND<4.2
	3/25/10	ND<4.3	ND<7.6	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3
	8/27/10	ND<7.2	ND<13	ND<6.8	ND<16	ND<3.9	ND<4.3	ND<5.5	ND<5.5	ND<5.5
	5/11/11	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	7/25/11	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
	8/24/11	ND<2.5	ND<2.5	2.7	1.2	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	9/13/11	ND<2.5	ND<2.5	4.2	1	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	10/20/11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	11/17/11	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	12/20/11	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
1/17/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	
2/14/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	
3/20/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
4/17/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	
5/22/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	
6/26/2012	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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		Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
Sample ID	Date Analyzed	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Post GAC	5/12/06	48	110	ND<7.5	ND<7.5	ND<7.5	ND<7.5	ND<7.5	ND<7.5	ND<7.5
	5/22/06	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500
	6/14/06	ND<2.0	5.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	7/6/06	ND<0.50	3.1	ND<0.50	2.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/12/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	3/1/07	ND<8.7	16	ND<8.2	ND<19	ND<4.7	ND<5.2	ND<6.7	ND<6.7	ND<6.7
	4/11/07	ND<1.1	9.2	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	4/26/07	ND<14	ND<24	ND<13	ND<30	ND<7.3	ND<8.1	ND<10	ND<10	ND<10
	5/10/07	ND<13	ND<22	ND<12	ND<28	ND<6.9	ND<7.7	ND<9.8	ND<9.8	ND<9.8
	5/24/07	ND<8.7	ND<15	ND<8.2	ND<19	ND<4.7	ND<5.2	ND<6.7	ND<6.7	ND<6.7
	6/7/07	ND<1.1	2.5	ND<1	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	11/6/07	ND<1.1	ND<1.9	ND<1	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	12/6/07	ND<62	ND<110	ND<59	ND<140	ND<34	ND<37	ND<48	ND<48	ND<48
	1/16/08	ND<1.1	ND<1.9	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	2/22/08	ND<1.1	ND<1.9	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	4/21/08	ND<1.1	9.4	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	7/16/08	ND<1.1	5.7	ND<1.0	3.1	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	4/6/09	ND<4.3	20	ND<4.1	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3
	7/22/09	ND<1.1	ND<1.9	ND<1.0	3	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	8/24/09	ND<4.3	ND<7.6	4.3	ND<9.7	ND<2.3	ND<2.6	ND<3.3	ND<3.3	ND<3.3
	10/20/09	ND<1.6	6.5	ND<1.5	3.6	ND<0.84	ND<0.93	ND<1.2	ND<1.2	ND<1.2
	3/25/10	ND<1.1	ND<1.9	ND<1.0	ND<2.4	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	8/27/10	ND<1.1	ND<1.9	1.5	3.1	ND<0.59	ND<0.65	ND<0.83	ND<0.83	ND<0.83
	5/11/11	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	7/25/11	ND<2.5	3.4	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	8/24/11	ND<2.5	ND<2.5	4.1	1.3	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
9/13/11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
10/20/11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
11/17/11	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
12/20/11	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	
1/17/2012	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	
2/14/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
3/20/2012	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	
4/17/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
5/22/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	
6/26/2012	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
Mid PP	6/14/06	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	4
	7/6/06	ND<0.50	1.5	ND<0.50	1.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.64
	2/12/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	3/1/07	-	-	ND<5.1	-	-	ND<3.3	-	-	ND<4.2
	4/11/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/26/07	-	-	ND<6.8	-	-	ND<4.3	-	-	ND<5.5
	5/10/07	-	-	ND<6.8	-	-	ND<4.3	-	-	ND<5.5
	5/24/07	-	-	ND<4.6	-	-	ND<2.9	-	-	ND<3.7
	6/7/07	-	-	ND<1	-	-	ND<0.65	-	-	ND<0.83
	11/6/07	-	-	ND<1	-	-	ND<0.65	-	-	ND<0.83
	1/16/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	2/19/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/21/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	7/16/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/6/09	-	-	ND<2	-	-	ND<1.3	-	-	ND<1.7
7/22/09	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83	

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SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Chlorobenzene ppbv	Chloroethane ppbv	Chloroform ppbv	Chloromethane ppbv	Dibromochloromethane ppbv	1,2-Dibromoethane (EDB) ppbv	1,2-Dichlorobenzene ppbv	1,3-Dichlorobenzene ppbv	1,4-Dichlorobenzene ppbv
Mid PP	8/24/09	-	-	4.2	-	-	ND<2.6	-	-	ND<3.3
	10/20/09	-	-	ND<1.3	-	-	ND<0.81	-	-	ND<1
	3/25/10	-	-	ND<1	-	-	ND<0.65	-	-	ND<0.83
	8/27/10	-	-	2.5	-	-	ND<0.65	-	-	ND<0.83
	5/11/11	-	-	ND<1.0	-	-	ND<1.0	-	-	ND<1.0
	7/25/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	8/24/11	-	-	3.7	-	-	ND<2.5	-	-	ND<2.5
	9/13/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	10/20/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	11/17/11	-	-	ND<5.0	-	-	ND<5.0	-	-	ND<5.0
	12/20/11	-	-	ND<5.0	-	-	ND<5.0	-	-	ND<5.0
	1/17/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25
	2/14/2012	-	-	ND<50	-	-	ND<50	-	-	ND<50
	3/20/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25
	4/17/2012	-	-	ND<50	-	-	ND<50	-	-	ND<50
5/22/2012	-	-	ND<50	-	-	ND<50	-	-	ND<50	
6/26/2012	-	-	ND<5.0	-	-	ND<5.0	-	-	ND<5.0	
Effluent	5/22/06	ND<1.0	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	6/14/06	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3	2.9	3
	7/6/06	0.86	1.8	ND<0.50	1.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/12/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	3/1/07	-	-	ND<2.6	-	-	ND<1.6	-	-	ND<2.1
	4/11/07	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/26/07	-	-	ND<4.6	-	-	ND<2.9	-	-	ND<3.7
	5/10/07	-	-	ND<4.6	-	-	ND<2.9	-	-	ND<3.7
	5/24/07	-	-	ND<4.6	-	-	ND<2.9	-	-	ND<3.7
	6/7/07	-	-	ND<1	-	-	ND<0.65	-	-	ND<0.83
	11/6/07	-	-	ND<1	-	-	ND<0.65	-	-	ND<0.83
	12/6/07	ND<62	ND<110	ND<59	ND<140	ND<34	ND<37	ND<48	ND<48	ND<48
	1/16/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	2/19/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/21/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	6/24/08	-	-	ND<20	-	-	ND<13	-	-	ND<17
	7/16/08	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	4/6/09	-	-	ND<4.1	-	-	ND<2.6	-	-	ND<3.3
	7/22/09	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	8/24/09	-	-	4.2	-	-	ND<2.6	-	-	ND<3.3
	10/20/09	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	3/25/10	-	-	ND<1.0	-	-	ND<0.65	-	-	ND<0.83
	8/27/10	-	-	2.2	-	-	ND<0.65	-	-	ND<0.83
	9/24/10	-	-	ND<20	-	-	ND<13	-	-	ND<17
	5/11/11	-	-	ND<1.0	-	-	ND<1.0	-	-	ND<1.0
	7/25/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	8/24/11	-	-	6.6	-	-	ND<1.2	-	-	ND<1.2
	9/13/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	10/20/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5
	11/17/11	-	-	ND<5.0	-	-	ND<5.0	-	-	ND<5.0
12/20/11	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5	
1/17/2012	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5	
2/14/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25	
3/20/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25	
4/17/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25	
5/22/2012	-	-	ND<25	-	-	ND<25	-	-	ND<25	
6/26/2012	-	-	ND<2.5	-	-	ND<2.5	-	-	ND<2.5	
Discharge Limits	-	NA	NA	210	NA	NA	210	NA	NA	210

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	1,1-Dichloroethane ppbv	1,2-Dichloroethane ppbv	1,1-Dichloroethene ppbv	cis-1,2-Dichloroethene ppbv	trans-1,2-Dichloroethene ppbv	1,2-Dichloropropane ppbv	cis-1,3-Dichloropropene ppbv	trans-1,3-Dichloropropene ppbv	4-Ethyl Toluene ppbv
Wellfield/Influent	5/12/06	2900	31	ND<25	600	76	ND<25	ND<25	ND<50	540
	5/22/06	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	7.8
	2/12/07	2400	ND<49	ND<50	840	69	ND<43	ND<44	ND<44	-
	3/1/07	610	ND<4.1	6	500	16	ND<3.6	ND<3.7	ND<3.7	-
	4/11/07	1100	ND<12	ND<13	760	29	ND<11	ND<11	ND<11	-
	4/26/07	1600	ND<71	ND<72	1300	ND<72	ND<62	ND<63	ND<63	-
	5/10/07	690	ND<35	ND<36	610	ND<36	ND<31	ND<31	ND<31	-
	5/24/07	560	ND<35	ND<36	590	ND<36	ND<31	ND<31	ND<31	-
	6/7/07	360	ND<16	ND<17	370	ND<17	ND<14	ND<15	ND<15	-
	2/19/08	150	ND<62	ND<63	480	ND<63	ND<54	ND<55	ND<55	-
	4/21/08	260	ND<25	ND<25	390	ND<25	ND<22	ND<22	ND<22	-
	7/16/08	ND<120	ND<120	ND<140	ND<130	ND<130	ND<110	ND<110	ND<110	-
	4/6/09	230	ND<4.9	7.9	330	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	7/22/09	180	ND<4.9	11	180	ND<5.0	ND<4.3	ND<4.4	ND<4.4	-
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	220	ND<6.2	12	190	ND<6.3	ND<5.4	ND<5.5	ND<5.5	-
	3/25/10	650	ND<8.2	21	820	ND<8.4	ND<7.2	ND<7.3	ND<7.3	-
	8/27/10	250	ND<4.1	5.9	350	ND<4.2	ND<3.6	ND<3.7	ND<3.7	-
	5/11/11	540	ND<12	ND<12	820	16	ND<12	ND<12	ND<12	-
	7/25/11	140	ND<10	ND<10	450	ND<10	ND<10	ND<10	ND<10	-
	8/24/11	160	ND<2.5	4.2	230	0.8	ND<2.5	ND<2.5	ND<2.5	-
10/20/11	150	ND<2.5	4	470	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-	
11/17/11	101	ND<5.0	ND<5.0	238	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	
12/20/11	220	ND<200	ND<200	420	ND<200	ND<200	ND<200	ND<200	-	
1/17/2012	ND<200	ND<200	ND<200	260	ND<200	ND<200	ND<200	ND<200	-	
2/14/2012	ND<200	ND<200	ND<200	460	ND<200	ND<200	ND<200	ND<200	-	
3/20/2012	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	-	
4/17/2012	ND<200	ND<200	ND<200	230	ND<200	ND<200	ND<200	ND<200	-	
5/22/2012	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	-	
6/26/2012	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	ND<2000	-	
Influent	6/14/06	960	ND<220	ND<220	ND<220	ND<220	ND<220	ND<220	ND<450	ND<220
	7/6/06	570	2.7	8.9	160	18	ND<2.0	ND<2.0	ND<4.0	9.4
	2/12/07	2000	ND<49	ND<50	680	59	ND<43	ND<44	ND<44	-
	3/1/07	910	ND<6.2	8.5	690	21	ND<5.4	ND<5.5	ND<5.5	-
	4/11/07	140	ND<1.4	1.5	93	3.6	ND<1.2	ND<1.3	ND<1.3	-
	4/26/07	190	ND<9.9	ND<10	150	ND<10	ND<8.7	ND<8.8	ND<8.8	-
	5/10/07	210	ND<7.1	ND<7.2	170	ND<7.2	ND<6.2	ND<6.3	ND<6.3	-
	5/24/07	160	ND<7.1	ND<7.2	170	ND<7.2	ND<6.2	ND<6.3	ND<6.3	-
	6/7/07	85	ND<4.9	ND<5	85	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	11/6/07	ND<250	ND<250	ND<250	510	ND<250	ND<220	ND<220	ND<220	-
	12/6/07	160	ND<71	ND<72	390	ND<72	ND<62	ND<63	ND<63	-
	1/16/08	69	ND<62	ND<63	260	ND<63	ND<54	ND<55	ND<55	-
	2/19/08	39	ND<21	ND<21	150	ND<21	ND<18	ND<18	ND<18	-
	4/21/08	130	ND<25	ND<25	190	ND<25	ND<22	ND<22	ND<22	-
	6/24/08	150	ND<25	ND<25	220	ND<25	ND<22	ND<22	ND<22	-
	7/16/08	ND<620	ND<620	ND<630	ND<630	ND<630	ND<540	ND<550	ND<550	-
	4/6/09	96	ND<4.9	ND<5	140	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	7/22/09	85	ND<4.9	5.5	81	ND<5.0	ND<4.3	ND<4.4	ND<4.4	-
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	100	ND<8.2	ND<8.4	88	ND<8.4	ND<7.2	ND<7.3	ND<7.3	-

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	1,1-Dichloroethane ppbv	1,2-Dichloroethane ppbv	1,1-Dichloroethene ppbv	cis-1,2-Dichloroethene ppbv	trans-1,2-Dichloroethene ppbv	1,2-Dichloropropane ppbv	cis-1,3-Dichloropropene ppbv	trans-1,3-Dichloropropene ppbv	4-Ethyl Toluene ppbv
Influent	3/25/10	200	ND<8.2	ND<8.4	250	ND<8.4	ND<7.2	ND<7.3	ND<7.3	-
	8/27/10	170	ND<6.2	ND<6.3	230	ND<6.3	ND<5.4	ND<5.5	ND<5.5	-
	5/11/11	240	ND<5.0	ND<5.0	380	8	ND<5.0	ND<5.0	ND<5.0	-
	7/25/11	54	ND<10	ND<10	160	ND<10	ND<10	ND<10	ND<10	-
	8/24/11	77	ND<2.5	2.1	120	0.5	ND<2.5	ND<2.5	ND<2.5	-
	9/13/11	66	ND<2.5	1.6	140	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-
	10/20/11	80	ND<2.5	2.6	180	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-
	11/17/11	60.2	ND<5.0	ND<5.0	293	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-
	12/20/11	120	ND<50	ND<50	250	ND<50	ND<50	ND<50	ND<50	-
	1/17/2012	88	ND<50	ND<50	180	ND<50	ND<50	ND<50	ND<50	-
	2/14/2012	ND<100	ND<100	ND<100	180	ND<100	ND<100	ND<100	ND<100	-
	3/20/2012	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	-
	4/17/2012	ND<100	ND<100	ND<100	140	ND<100	ND<100	ND<100	ND<100	-
	5/22/2012	ND<120	ND<120	ND<120	250	ND<120	ND<120	ND<120	ND<120	-
6/26/2012	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	-	
Mid GAC	5/12/06	2700	32	ND<22	630	83	ND<22	ND<22	ND<45	570
	5/22/06	34	ND<2.5	ND<2.5	7.1	ND<2.5	ND<2.5	ND<2.5	ND<5.0	6.3
	6/14/06	27	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10
	7/6/06	46	ND<0.50	ND<0.50	7.9	0.55	ND<0.50	ND<0.50	ND<1.0	4.5
	2/12/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	3/1/07	440	ND<9.9	ND<10	13	ND<10	ND<8.7	ND<8.8	ND<8.8	-
	4/11/07	16	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	4/26/07	39	ND<21	ND<21	ND<21	ND<21	ND<18	ND<18	ND<18	-
	5/10/07	89	ND<9.9	ND<10	23	ND<10	ND<8.7	ND<8.8	ND<8.8	-
	5/24/07	290	ND<5.5	ND<5.6	220	6.3	ND<4.8	ND<4.9	ND<4.9	-
	6/7/07	140	ND<4.9	ND<5	130	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	11/6/07	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	12/6/07	3800	ND<71	ND<72	2500	ND<72	ND<62	ND<63	ND<63	-
	1/16/08	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	2/19/08	91	ND<3.4	ND<3.5	5.8	ND<3.5	ND<3.0	ND<0.61	ND<0.61	-
	4/21/08	160	ND<21	ND<21	230	ND<21	ND<18	ND<18	ND<18	-
	7/16/08	ND<1200	ND<1200	ND<1300	ND<1300	ND<1300	ND<1100	ND<1100	ND<1100	-
	4/6/09	240	ND<25	ND<25	820	ND<25	ND<22	ND<22	ND<22	-
	7/22/09	250	ND<4.9	19	270	ND<5.0	ND<4.3	ND<4.4	ND<4.4	-
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	300	ND<6.2	26	800	8.9	ND<5.4	ND<5.5	ND<5.5	-
	3/25/10	150	ND<4.9	8.2	300	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	8/27/10	180	ND<8.2	ND<8.4	220	ND<8.4	ND<7.2	ND<7.3	ND<7.3	-
	5/11/11	940	ND<50	ND<50	1100	ND<50	ND<50	ND<50	ND<50	-
	7/25/11	190	ND<10	ND<10	1100	11	ND<10	ND<10	ND<10	-
	8/24/11	50	ND<2.5	5	180	1.2	ND<2.5	ND<2.5	ND<2.5	-
	9/13/11	89	ND<2.5	3.4	400	1.2	ND<2.5	ND<2.5	ND<2.5	-
	10/20/11	150	ND<2.5	7.2	1000	3.1	ND<2.5	ND<2.5	ND<2.5	-
	11/17/11	52.8	ND<5.0	ND<5.0	110	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-
	12/20/11	160	ND<100	ND<100	360	ND<100	ND<100	ND<100	ND<100	-
1/17/2012	ND<100	ND<100	ND<100	180	ND<100	ND<100	ND<100	ND<100	-	
2/14/2012	ND<100	ND<100	ND<100	220	ND<100	ND<100	ND<100	ND<100	-	
3/20/2012	58	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	-	
4/17/2012	ND<100	ND<100	ND<100	240	ND<100	ND<100	ND<100	ND<100	-	
5/22/2012	ND<100	ND<100	ND<100	160	ND<100	ND<100	ND<100	ND<100	-	
6/26/2012	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	-	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	1,1-Dichloroethane ppbv	1,2-Dichloroethane ppbv	1,1-Dichloroethene ppbv	cis-1,2-Dichloroethene ppbv	trans-1,2-Dichloroethene ppbv	1,2-Dichloropropane ppbv	cis-1,3-Dichloropropene ppbv	trans-1,3-Dichloropropene ppbv	4-Ethyl Toluene ppbv
Post GAC	5/12/06	1500	14	10	330	43	ND<7.5	ND<7.5	ND<15	280
	5/22/06	1100	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<1000	ND<500
	6/14/06	22	ND<2.0	ND<2.0	3.7	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0
	7/6/06	ND<0.50	ND<0.50	0.93	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.3
	2/12/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	3/1/07	ND<9.9	ND<9.9	ND<10	ND<10	ND<10	ND<8.7	ND<8.8	ND<8.8	-
	4/11/07	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	4/26/07	ND<15	ND<15	ND<16	ND<16	ND<16	ND<14	ND<14	ND<14	-
	5/10/07	ND<15	ND<15	ND<15	ND<15	ND<15	ND<13	ND<13	ND<13	-
	5/24/07	ND<9.9	ND<9.9	ND<10	ND<10	ND<10	ND<8.7	ND<8.8	ND<8.8	-
	6/7/07	73	ND<1.2	ND<1.3	3.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	11/6/07	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	12/6/07	5200	ND<71	ND<72	92	ND<72	ND<62	ND<63	ND<63	-
	1/16/08	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	2/22/08	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	4/21/08	47	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	7/16/08	ND<1.2	ND<1.2	ND<1.3	ND<1.3	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	4/6/09	99	ND<4.9	ND<5	19	ND<5	ND<4.3	ND<4.4	ND<4.4	-
	7/22/09	2.5	ND<1.2	ND<1.3	2.8	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	8/24/09	1000	35	43	17	ND<5.0	ND<4.3	ND<4.4	ND<4.4	-
	10/20/09	22	ND<1.8	ND<1.8	9.6	ND<1.8	ND<1.5	ND<1.6	ND<1.6	-
	3/25/10	79	ND<1.2	2.9	7.0	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	8/27/10	290	ND<1.2	21	5.7	ND<1.3	ND<1.1	ND<1.1	ND<1.1	-
	5/11/11	24	ND<1.0	24	28	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-
	7/25/11	4.5	ND<2.5	ND<2.5	26	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-
	8/24/11	110	ND<2.5	7	700	4.7	ND<2.5	ND<2.5	ND<2.5	-
	9/13/11	150	ND<2.5	9.3	1600	6.6	ND<2.5	ND<2.5	ND<2.5	-
	10/20/11	19	ND<2.5	ND<2.5	5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-
11/17/11	113	ND<5.0	ND<5.0	17.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	
12/20/11	100	ND<10	ND<10	81	ND<10	ND<10	ND<10	ND<10	-	
1/17/2012	32	ND<10	ND<10	92	ND<10	ND<10	ND<10	ND<10	-	
2/14/2012	66	ND<50	ND<50	300	ND<50	ND<50	ND<50	ND<50	-	
3/20/2012	46	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	-	
4/17/2012	82	ND<50	ND<50	350	ND<50	ND<50	ND<50	ND<50	-	
5/22/2012	ND<50	ND<50	ND<50	130	ND<50	ND<50	ND<50	ND<50	-	
6/26/2012	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	
Mid PP	6/14/06	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0
	7/6/06	1.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.6
	2/12/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	3/1/07	ND<6.2	ND<6.2	-	-	-	-	-	-	-
	4/11/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/26/07	ND<8.2	ND<8.2	-	-	-	-	-	-	-
	5/10/07	ND<8.2	ND<8.2	-	-	-	-	-	-	-
	5/24/07	ND<5.5	ND<5.5	-	-	-	-	-	-	-
	6/7/07	57	ND<1.2	-	-	-	-	-	-	-
	11/6/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	1/16/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	2/19/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/21/08	40	ND<1.2	-	-	-	-	-	-	-
	7/16/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/6/09	110	ND<2.5	-	-	-	-	-	-	-
7/22/09	2.5	ND<1.2	-	-	-	-	-	-	-	

TABLE 1
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		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	4-Ethyl Toluene
Sample ID	Date Analyzed	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Mid PP	8/24/09	1000	34	-	-	-	-	-	-	-
	10/20/09	22	ND<1.5	-	-	-	-	-	-	-
	3/25/10	79	ND<1.2	-	-	-	-	-	-	-
	8/27/10	390	ND<1.2	-	-	-	-	-	-	-
	5/11/11	24	ND<1.0	-	-	-	-	-	-	-
	7/25/11	4.4	ND<2.5	-	-	-	-	-	-	-
	8/24/11	100	ND<2.5	-	-	-	-	-	-	-
	9/13/11	150	ND<2.5	-	-	-	-	-	-	-
	10/20/11	19	ND<2.5	-	-	-	-	-	-	-
	11/17/11	113	ND<5.0	-	-	-	-	-	-	-
	12/20/11	110	ND<5.0	-	-	-	-	-	-	-
	1/17/2012	56	ND<25	-	-	-	-	-	-	-
	2/14/2012	72	ND<50	-	-	-	-	-	-	-
	3/20/2012	47	ND<25	-	-	-	-	-	-	-
	4/17/2012	82	ND<50	-	-	-	-	-	-	-
5/22/2012	76	ND<50	-	-	-	-	-	-	-	
6/26/2012	ND<5.0	ND<5.0	-	-	-	-	-	-	-	
Effluent	5/22/06	2.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	11
	6/14/06	2.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.68
	7/6/06	1.6	ND<0.50	0.76	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1
	2/12/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	3/1/07	ND<3.1	ND<3.1	-	-	-	-	-	-	-
	4/11/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/26/07	ND<5.5	ND<5.5	-	-	-	-	-	-	-
	5/10/07	ND<5.5	ND<5.5	-	-	-	-	-	-	-
	5/24/07	ND<5.5	ND<5.5	-	-	-	-	-	-	-
	6/7/07	67	ND<1.2	-	-	-	-	-	-	-
	11/6/07	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	12/6/07	5800	ND<71	ND<72	ND<72	ND<72	ND<62	ND<63	ND<63	-
	1/16/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	2/19/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/21/08	51	ND<1.2	-	-	-	-	-	-	-
	6/24/08	140	ND<25	-	-	-	-	-	-	-
	7/16/08	ND<1.2	ND<1.2	-	-	-	-	-	-	-
	4/6/09	93	ND<4.9	-	-	-	-	-	-	-
	7/22/09	2.4	ND<1.2	-	-	-	-	-	-	-
	8/24/09	1000	33	-	-	-	-	-	-	-
	10/20/09	21	ND<1.2	-	-	-	-	-	-	-
	3/25/10	76	ND<1.2	-	-	-	-	-	-	-
	8/27/10	390	ND<1.2	-	-	-	-	-	-	-
	9/24/10	1100	ND<25	-	-	-	-	-	-	-
	5/11/11	16	ND<1.0	-	-	-	-	-	-	-
	7/25/11	4.4	ND<2.5	-	-	-	-	-	-	-
	8/24/11	110	ND<1.2	-	-	-	-	-	-	-
	9/13/11	150	ND<2.5	-	-	-	-	-	-	-
	10/20/11	17	ND<2.5	-	-	-	-	-	-	-
	11/17/11	104	ND<5.0	-	-	-	-	-	-	-
12/20/11	120	ND<2.5	-	-	-	-	-	-	-	
1/17/2012	9.6	ND<2.5	-	-	-	-	-	-	-	
2/14/2012	53	ND<25	-	-	-	-	-	-	-	
3/20/2012	46	ND<25	-	-	-	-	-	-	-	
4/17/2012	81	ND<25	-	-	-	-	-	-	-	
5/22/2012	34	ND<25	-	-	-	-	-	-	-	
6/26/2012	ND<2.5	ND<2.5	-	-	-	-	-	-	-	
Discharge Limits	-	1120	210	NA	NA	NA	NA	NA	NA	NA

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Sample ID	Date Analyzed	Ethylbenzene ppbv	Freon 11 (Trichlorofluoromethane) ppbv	Freon 12 (Dichlorodifluoromethane) ppbv	Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) ppbv	Freon 114 (1,2-Dichlorotetrafluoroethane) ppbv	Hexachlorobutadiene ppbv	2-Hexanone ppbv	Methane ppmv	Methyl Tert-butyl ether (MTBE) ppbv
Wellfield/Influent	5/12/06	1600	ND<50	ND<25	1100	ND<100	ND<50	ND<50	37000	ND<100
	5/22/06	5.8	ND<5.0	ND<2.5	ND<5.0	ND<10	ND<5.0	ND<5.0	-	ND<10
	2/12/07	1200	ND<36	-	1400	-	-	ND<49	49000	ND<55
	3/1/07	120	ND<3.0	-	410	-	-	ND<4.1	1500	ND<4.6
	4/11/07	170	ND<8.9	-	660	-	-	ND<12	6000	ND<14
	4/26/07	290	ND<51	-	890	-	-	ND<70	5000	ND<79
	5/10/07	170	ND<25	-	270	-	-	ND<35	2600	ND<40
	5/24/07	180	ND<25	-	190	-	-	ND<35	1600	ND<40
	6/7/07	120	ND<12	-	140	-	-	ND<16	950	ND<18
	2/19/08	1600	ND<45	-	140	-	-	ND<61	1700	ND<69
	4/21/08	680	ND<18	-	120	-	-	ND<24	-	ND<28
	7/16/08	ND<120	ND<89	-	ND<72	-	-	ND<120	880	ND<140
	4/6/09	73	ND<3.6	-	210	-	-	ND<4.9	1000	ND<5.5
	7/22/09	100	ND<3.6	-	160	-	-	ND<4.9	240	ND<5.5
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	87	ND<4.5	-	85	-	-	ND<6.1	730	ND<6.9
	3/25/10	160	ND<5.9	-	130	-	-	ND<8.1	1800	ND<9.2
	8/27/10	88	ND<3.0	-	31	-	-	ND<4.1	370	ND<4.6
	5/11/11	110	ND<12	-	40	-	-	ND<12	-	ND<12
	7/25/11	73	ND<10	-	ND<10	-	-	ND<10	310	ND<10
	8/24/11	48	0.2	-	3.7	-	-	ND<2.5	72	ND<2.5
	10/20/11	160	ND<2.5	-	4.1	-	-	ND<2.5	70	ND<2.5
	11/17/11	136	ND<5.0	-	ND<5.0	-	-	ND<5.0	119	ND<5.0
12/20/11	510	ND<200	-	ND<200	-	-	ND<200	280	ND<200	
1/17/2012	ND<200	ND<200	-	ND<200	-	-	ND<200	120	ND<200	
2/14/2012	480	ND<200	-	ND<200	-	-	ND<200	55	ND<200	
3/20/2012	140	ND<100	-	ND<100	-	-	ND<100	170	ND<100	
4/17/2012	ND<200	ND<200	-	ND<200	-	-	ND<200	120	ND<200	
5/22/2012	750	ND<200	-	ND<200	-	-	ND<200	20	ND<200	
6/26/2012	3200	ND<2000	-	ND<2000	-	-	ND<2000	250	ND<2000	
Influent	6/14/06	ND<220	ND<450	ND<220	460	ND<900	ND<450	ND<450	-	ND<900
	7/6/06	54	ND<4.0	ND<2.0	320	ND<8.0	ND<4.0	9.2	-	ND<8.0
	2/12/07	980	ND<36	-	1200	-	-	ND<49	39000	ND<55
	3/1/07	150	ND<4.5	-	600	-	-	ND<6.1	2100	ND<6.9
	4/11/07	27	ND<1.0	-	84	-	-	ND<1.4	740	ND<1.6
	4/26/07	29	ND<7.1	-	110	-	-	ND<9.8	650	ND<11
	5/10/07	29	ND<5.1	-	87	-	-	ND<7.0	630	ND<7.9
	5/24/07	26	ND<5.1	-	55	-	-	ND<7.0	430	ND<7.9
	6/7/07	21	ND<3.6	-	35	-	-	ND<4.9	250	ND<5.5
	11/6/07	2000	ND<180	-	ND<130	-	-	ND<240	11000	ND<280
	12/6/07	1500	ND<51	-	85	-	-	ND<70	2400	ND<79
	1/16/08	670	ND<45	-	46	-	-	ND<61	3200	ND<69
	2/19/08	540	ND<15	-	41	-	-	ND<20	570	ND<23
	4/21/08	380	ND<18	-	64	-	-	ND<24	860	ND<28
	6/24/08	520	ND<18	-	99	-	-	ND<24	430	ND<28
	7/16/08	ND<580	ND<450	-	ND<330	-	-	ND<610	480	ND<690
	4/6/09	34	ND<3.6	-	88	-	-	ND<4.9	460	ND<5.5
	7/22/09	36	ND<3.6	-	77	-	-	ND<4.9	130	ND<5.5
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	44	ND<5.9	-	40	-	-	ND<8.1	360	ND<9.2

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Ethylbenzene ppbv	Freon 11 (Trichlorofluoromethane) ppbv	Freon 12 (Dichlorodifluoromethane) ppbv	Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) ppbv	Freon 114 (1,2-Dichlorotetrafluoroethane) ppbv	Hexachlorobutadiene ppbv	2-Hexanone ppbv	Methane ppmv	Methyl Tert-butyl ether (MTBE) ppbv
Influent	3/25/10	47	ND<5.9	-	40	-	-	ND<8.1	610	ND<9.2
	8/27/10	59	ND<4.5	-	18	-	-	ND<6.1	240	ND<6.9
	5/11/11	51	ND<5.0	-	18	-	-	ND<5.0	-	ND<5.0
	7/25/11	34	ND<10	-	ND<10	-	-	ND<10	190	ND<10
	8/24/11	31	0.2	-	1.7	-	-	ND<2.5	28	ND<2.5
	9/13/11	110	ND<2.5	-	1.5	-	-	ND<2.5	49	ND<2.5
	10/20/11	120	ND<2.5	-	ND<2.5	-	-	ND<2.5	66	ND<2.5
	11/17/11	ND<5.0	ND<5.0	-	ND<5.0	-	-	ND<5.0	17.6	ND<5.0
	12/20/11	250	ND<50	-	ND<50	-	-	ND<50	45	ND<50
	1/17/2012	ND<50	ND<50	-	ND<50	-	-	ND<50	96	ND<50
	2/14/2012	220	ND<100	-	ND<100	-	-	ND<100	11	ND<100
	3/20/2012	60	ND<50	-	ND<50	-	-	ND<50	92	ND<50
	4/17/2012	100	ND<100	-	ND<100	-	-	ND<100	94	ND<100
	5/22/2012	350	ND<120	-	ND<120	-	-	ND<120	36	ND<120
6/26/2012	1300	ND<250	-	ND<250	-	-	ND<250	69	ND<250	
Mid GAC	5/12/06	1600	ND<45	ND<22	1200	ND<90	ND<45	ND<45	37000	ND<90
	5/22/06	8.4	ND<5.0	ND<2.5	15	ND<10	ND<5.0	ND<5.0	-	ND<10
	6/14/06	ND<10	ND<20	ND<10	ND<20	ND<40	ND<20	ND<20	-	ND<40
	7/6/06	6.4	ND<1.0	ND<0.50	26	ND<2.0	ND<1.0	8.5	-	4.2
	2/12/07	-	-	-	-	-	-	-	38000	ND<1.4
	3/1/07	ND<9.2	ND<7.1	-	910	-	-	ND<9.8	1900	ND<11
	4/11/07	7.9	ND<0.89	-	2.9	-	-	9.1	710	ND<1.4
	4/26/07	ND<19	ND<15	-	ND<11	-	-	ND<20	650	ND<23
	5/10/07	ND<9.2	ND<7.1	-	16	-	-	ND<9.8	620	ND<11
	5/24/07	ND<5.1	ND<4.0	-	98	-	-	ND<5.4	420	ND<6.2
	6/7/07	ND<4.6	ND<3.6	-	50	-	-	ND<4.9	210	ND<5.5
	11/6/07	1.8	ND<0.89	-	ND<0.65	-	-	1.5	11000	ND<1.4
	12/6/07	ND<66	ND<51	-	710	-	-	ND<70	2200	ND<79
	1/16/08	ND<1.2	ND<0.89	-	ND<0.65	-	-	ND<1.2	3100	ND<1.4
	2/19/08	ND<0.64	ND<2.5	-	93	-	-	ND<0.68	660	ND<3.9
	4/21/08	ND<19	ND<15	-	65	-	-	ND<20	660	ND<23
	7/16/08	ND<1200	ND<890	-	ND<650	-	-	ND<1200	460	ND<1400
	4/6/09	ND<23	ND<18	-	130	-	-	ND<24	440	ND<28
	7/22/09	ND<4.6	ND<3.6	-	160	-	-	ND<4.9	130	ND<5.5
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	ND<5.8	ND<4.5	-	67	-	-	ND<6.1	360	ND<6.9
	3/25/10	ND<4.6	ND<3.6	-	29	-	-	ND<4.9	ND<0.50	ND<5.5
	8/27/10	ND<7.7	ND<5.9	-	22	-	-	ND<8.1	240	ND<9.2
	5/11/11	ND<50	ND<50	-	80	-	-	ND<50	-	ND<50
	7/25/11	ND<10	ND<10	-	ND<10	-	-	ND<10	180	ND<10
	8/24/11	0.6	0.4	-	2	-	-	ND<2.5	ND<5.0	ND<2.5
	9/13/11	ND<2.5	0.2	-	1.6	-	-	ND<2.5	45	ND<2.5
	10/20/11	ND<2.5	ND<2.5	-	3.3	-	-	ND<2.5	100	ND<2.5
	11/17/11	85	ND<5.0	-	ND<5.0	-	-	ND<5.0	30.8	ND<5.0
	12/20/11	ND<100	ND<100	-	ND<100	-	-	ND<100	47	ND<100
	1/17/2012	ND<100	ND<100	-	ND<100	-	-	ND<100	30	ND<100
	2/14/2012	ND<100	ND<100	-	ND<100	-	-	ND<100	44	ND<100
3/20/2012	ND<50	ND<50	-	ND<50	-	-	ND<50	100	ND<50	
4/17/2012	ND<100	ND<100	-	ND<100	-	-	ND<100	39	ND<100	
5/22/2012	250	ND<100	-	ND<100	-	-	ND<100	23	ND<100	
6/26/2012	ND<1000	ND<1000	-	ND<1000	-	-	ND<1000	72	ND<1000	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Ethylbenzene ppbv	Freon 11 (Trichlorofluoromethane) ppbv	Freon 12 (Dichlorodifluoromethane) ppbv	Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) ppbv	Freon 114 (1,2-Dichlorotetrafluoroethane) ppbv	Hexachlorobutadiene ppbv	2-Hexanone ppbv	Methane ppmv	Methyl Tert-butyl ether (MTBE) ppbv
Post GAC	5/12/06	680	ND<15	ND<7.5	610	ND<30	ND<15	ND<15	36000	ND<30
	5/22/06	ND<500	ND<1000	ND<500	ND<1000	ND<2000	ND<1000	ND<1000	-	ND<2000
	6/14/06	ND<2.0	ND<4.0	ND<2.0	8.5	ND<8.0	ND<4.0	ND<4.0	-	ND<8.0
	7/6/06	1.7	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	11	-	2.4
	2/12/07	-	-	-	-	-	-	-	38000	ND<1.4
	3/1/07	ND<9.2	ND<7.1	-	ND<5.2	-	-	ND<9.8	2200	ND<11
	4/11/07	8.7	ND<0.89	-	ND<0.65	-	-	4.2	710	ND<1.4
	4/26/07	ND<14	ND<11	-	ND<8.2	-	-	ND<15	650	ND<17
	5/10/07	ND<14	ND<10	-	ND<7.7	-	-	23	590	ND<16
	5/24/07	ND<9.2	ND<7.1	-	ND<5.2	-	-	ND<9.8	450	ND<11
	6/7/07	ND<1.2	ND<0.89	-	32	-	-	2.2	210	ND<1.4
	11/6/07	2.3	ND<0.89	-	ND<0.65	-	-	ND<1.2	11000	ND<1.4
	12/6/07	ND<66	ND<51	-	-	-	-	ND<70	2100	ND<79
	1/16/08	ND<1.2	ND<0.89	-	ND<0.65	-	-	ND<1.2	3000	ND<1.4
	2/22/08	1.9	ND<0.89	-	ND<0.65	-	-	ND<1.2	590	ND<1.4
	4/21/08	ND<1.2	ND<0.89	-	120	-	-	ND<1.2	750	ND<1.4
	7/16/08	1.2	ND<0.89	-	ND<0.65	-	-	20	470	ND<1.4
	4/6/09	ND<4.6	ND<3.6	-	430	-	-	7.7	435	ND<5.5
	7/22/09	ND<1.2	ND<0.89	-	2.4	-	-	ND<1.2	130	ND<1.4
	8/24/09	ND<4.6	ND<3.6	-	230	-	-	ND<4.9	220	ND<5.5
	10/20/09	ND<1.6	ND<1.3	-	110	-	-	ND<1.7	370	ND<2
	3/25/10	ND<1.2	ND<0.89	-	29	-	-	ND<1.2	ND<0.50	ND<1.4
	8/27/10	ND<1.2	ND<0.89	-	54	-	-	ND<1.2	170	ND<1.4
	5/11/11	ND<1.0	ND<1.0	-	2	-	-	32	-	ND<1.0
	7/25/11	ND<2.5	ND<2.5	-	ND<2.5	-	-	ND<2.5	180	ND<2.5
	8/24/11	0.8	0.2	-	1.9	-	-	ND<2.5	17	ND<2.5
9/13/11	1.8	0.3	-	3.7	-	-	ND<2.5	36	ND<2.5	
10/20/11	ND<2.5	ND<2.5	-	7.3	-	-	ND<2.5	78	ND<2.5	
11/17/11	ND<5.0	ND<5.0	-	ND<5.0	-	-	ND<5.0	32.4	ND<5.0	
12/20/11	ND<10	ND<10	-	ND<10	-	-	ND<10	39	ND<10	
1/17/2012	ND<10	ND<10	-	ND<10	-	-	ND<10	47	ND<10	
2/14/2012	ND<50	ND<50	-	ND<50	-	-	ND<50	ND<0.50	ND<50	
3/20/2012	ND<25	ND<25	-	ND<25	-	-	ND<25	120	ND<25	
4/17/2012	ND<50	ND<50	-	ND<50	-	-	ND<50	53	ND<50	
5/22/2012	ND<50	ND<50	-	ND<50	-	-	ND<50	30	ND<50	
6/26/2012	ND<5.0	ND<5.0	-	ND<5.0	-	-	ND<5.0	61	ND<5.0	
Mid PP	6/14/06	ND<2.0	ND<4.0	ND<2.0	ND<4.0	ND<8.0	ND<4.0	ND<4.0	-	ND<8.0
	7/6/06	3.3	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	11	-	ND<2.0
	2/12/07	-	-	-	-	-	-	-	19000	ND<1.4
	3/1/07	-	-	-	-	-	-	-	2100	ND<6.9
	4/11/07	-	-	-	-	-	-	-	710	ND<1.4
	4/26/07	-	-	-	-	-	-	-	640	ND<9.2
	5/10/07	-	-	-	-	-	-	-	630	ND<9.2
	5/24/07	-	-	-	-	-	-	-	420	ND<6.2
	6/7/07	-	-	-	-	-	-	-	210	ND<1.4
	11/6/07	-	-	-	-	-	-	-	6700	ND<1.4
	1/16/08	-	-	-	-	-	-	-	3000	ND<1.4
	2/19/08	-	-	-	-	-	-	-	630	ND<1.4
	4/21/08	-	-	-	-	-	-	-	710	ND<1.4
	7/16/08	-	-	-	-	-	-	-	460	ND<1.4
	4/6/09	-	-	-	-	-	-	-	430	ND<2.8
7/22/09	-	-	-	-	-	-	-	130	ND<1.4	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	Ethylbenzene ppbv	Freon 11 (Trichlorofluoromethane) ppbv	Freon 12 (Dichlorodifluoromethane) ppbv	Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) ppbv	Freon 114 (1,2-Dichlorotetrafluoroethane) ppbv	Hexachlorobutadiene ppbv	2-Hexanone ppbv	Methane ppmv	Methyl Tert-butyl ether (MTBE) ppbv
Mid PP	8/24/09	-	-	-	-	-	-	-	230	ND<5.5
	10/20/09	-	-	-	-	-	-	-	360	ND<1.7
	3/25/10	-	-	-	-	-	-	-	600	ND<1.4
	8/27/10	-	-	-	-	-	-	-	240	ND<1.4
	5/11/11	-	-	-	-	-	-	-	-	ND<1.0
	7/25/11	-	-	-	-	-	-	-	160	ND<2.5
	8/24/11	-	-	-	-	-	-	-	3.4	ND<2.5
	9/13/11	-	-	-	-	-	-	-	32	ND<2.5
	10/20/11	-	-	-	-	-	-	-	80	ND<2.5
	11/17/11	-	-	-	-	-	-	-	89	ND<5.0
	12/20/11	-	-	-	-	-	-	-	130	ND<5.0
	1/17/2012	-	-	-	-	-	-	-	47	ND<25
	2/14/2012	-	-	-	-	-	-	-	23	ND<50
	3/20/2012	-	-	-	-	-	-	-	100	ND<25
	4/17/2012	-	-	-	-	-	-	-	71	ND<50
5/22/2012	-	-	-	-	-	-	-	28	ND<50	
6/26/2012	-	-	-	-	-	-	-	62	ND<5.0	
Effluent	5/22/06	8.1	ND<2.0	ND<1.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	-	ND<4.0
	6/14/06	1.2	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	ND<1.0	-	ND<2.0
	7/6/06	2.7	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	6.4	-	ND<2.0
	2/12/07	-	-	-	-	-	-	-	38000	ND<1.4
	3/1/07	-	-	-	-	-	-	-	-	ND<3.5
	4/11/07	-	-	-	-	-	-	-	-	ND<1.4
	4/26/07	-	-	-	-	-	-	-	670	ND<6.2
	5/10/07	-	-	-	-	-	-	-	660	ND<6.2
	5/24/07	-	-	-	-	-	-	-	450	ND<6.2
	6/7/07	-	-	-	-	-	-	-	320	ND<1.4
	11/6/07	-	-	-	-	-	-	-	10000	ND<1.4
	12/6/07	ND<66	ND<51	-	-	-	-	ND<70	2300	ND<79
	1/16/08	-	-	-	-	-	-	-	3200	ND<1.4
	2/19/08	-	-	-	-	-	-	-	670	ND<1.4
	4/21/08	-	-	-	-	-	-	-	920	ND<1.4
	6/24/08	-	-	-	-	-	-	-	420	ND<28
	7/16/08	-	-	-	-	-	-	-	490	ND<1.4
	4/6/09	-	-	-	-	-	-	-	-	ND<5.5
	7/22/09	-	-	-	-	-	-	-	130	ND<1.4
	8/24/09	-	-	-	-	-	-	-	230	ND<5.5
	10/20/09	-	-	-	-	-	-	-	360	ND<1.4
	3/25/10	-	-	-	-	-	-	-	ND<0.50	ND<1.4
	8/27/10	-	-	-	-	-	-	-	240	ND<1.4
	9/24/10	-	-	-	-	-	-	-	-	ND<28
	5/11/11	-	-	-	-	-	-	-	-	ND<1.0
	7/25/11	-	-	-	-	-	-	-	160	ND<2.5
	8/24/11	-	-	-	-	-	-	-	20	ND<1.2
	9/13/11	-	-	-	-	-	-	-	54	ND<2.5
	10/20/11	-	-	-	-	-	-	-	91	ND<2.5
	11/17/11	-	-	-	-	-	-	-	151	ND<5.0
12/20/11	-	-	-	-	-	-	-	ND<0.50	ND<2.5	
1/17/2012	-	-	-	-	-	-	-	1.2	ND<2.5	
2/14/2012	-	-	-	-	-	-	-	61	ND<25	
3/20/2012	-	-	-	-	-	-	-	70	ND<25	
4/17/2012	-	-	-	-	-	-	-	42	ND<25	
5/22/2012	-	-	-	-	-	-	-	24	ND<25	
6/26/2012	-	-	-	-	-	-	-	65	ND<2.5	
Discharge Limits	-	NA	NA	NA	NA	NA	NA	NA	NA	210

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	4-Methyl-2-Pentanone (MIBK) ppbv	Methylene chloride ppbv	Nitrogen ppmv	Oxygen + Argon ppmv	Styrene ppbv	1,1,2,2-Tetrachloroethane ppbv	Tetrachloroethylene ppbv	Toluene ppbv	Total Gaseous Non-Methane Organics (TGNMO) ppmv
Wellfield/Influent	5/12/06	ND<50	170	780000	26000	ND<50	ND<50	100	860	3700
	5/22/06	ND<5.0	ND<10	-	-	ND<5.0	ND<5.0	ND<2.5	4	-
	2/12/07	ND<49	ND<58	-	-	ND<47	ND<29	98	630	590
	3/1/07	ND<4.1	ND<4.8	-	-	ND<3.9	ND<2.4	55	220	33
	4/11/07	ND<12	ND<14	-	-	ND<12	ND<7.3	120	290	69
	4/26/07	ND<70	ND<82	-	-	ND<67	ND<42	210	500	100
	5/10/07	ND<35	ND<41	-	-	ND<34	ND<21	140	300	73
	5/24/07	ND<35	ND<41	-	-	ND<34	ND<21	190	340	97
	6/7/07	ND<16	ND<19	-	-	ND<16	ND<9.7	130	220	58
	2/19/08	ND<61	ND<72	-	-	ND<59	ND<36	120	630	-
	4/21/08	ND<24	ND<29	-	-	ND<23	ND<15	130	290	-
	7/16/08	ND<120	ND<140	-	-	ND<120	ND<73	ND<74	ND<130	-
	4/6/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	78	67	-
	7/22/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	160	71	-
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	ND<6.1	ND<7.2	-	-	ND<5.9	ND<3.6	130	53	-
	3/25/10	ND<8.1	ND<9.6	-	-	ND<7.8	ND<4.9	270	130	-
	8/27/10	ND<4.1	ND<4.8	-	-	ND<3.9	ND<2.4	120	70	-
	5/11/11	ND<12	ND<12	-	-	ND<12	ND<12	160	72	-
	7/25/11	ND<10	ND<10	-	-	ND<10	ND<10	87	220	-
8/24/11	ND<2.5	1.8	-	-	ND<2.5	ND<2.5	58	69	-	
10/20/11	ND<2.5	ND<2.5	-	-	ND<2.5	ND<2.5	34	180	-	
11/17/11	ND<5.0	ND<5.0	-	-	ND<5.0	ND<5.0	34	85.6	-	
12/20/11	ND<200	ND<200	-	-	ND<200	ND<200	ND<200	230	-	
1/17/2012	ND<200	ND<200	-	-	ND<200	ND<200	ND<200	ND<200	-	
2/14/2012	ND<200	ND<200	-	-	ND<200	ND<200	620	200	-	
3/20/2012	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-	
4/17/2012	ND<200	ND<200	-	-	ND<200	ND<200	ND<200	ND<200	-	
5/22/2012	ND<200	ND<200	-	-	ND<200	ND<200	ND<200	470	-	
6/26/2012	ND<2000	ND<2000	-	-	ND<2000	ND<2000	ND<2000	3500	-	
Influent	6/14/06	ND<450	1700	-	-	ND<450	ND<450	ND<220	320	-
	7/6/06	ND<4.0	ND<8.0	-	-	ND<4.0	ND<4.0	42	160	-
	2/12/07	ND<49	ND<58	-	-	ND<47	ND<29	84	540	500
	3/1/07	ND<6.1	ND<7.2	-	-	ND<5.9	ND<3.6	75	300	42
	4/11/07	1.7	ND<1.6	-	-	ND<1.3	ND<0.83	15	48	6.8
	4/26/07	ND<9.8	ND<12	-	-	ND<9.4	ND<5.8	21	57	10
	5/10/07	ND<7.0	ND<8.2	-	-	ND<6.7	ND<4.2	29	69	14
	5/24/07	ND<7.0	ND<8.2	-	-	ND<6.7	ND<4.2	32	66	25
	6/7/07	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	25	47	13
	11/6/07	ND<240	ND<290	-	-	ND<230	ND<150	ND<150	840	-
	12/6/07	ND<70	ND<82	-	-	ND<67	ND<42	99	420	-
	1/16/08	ND<61	ND<72	-	-	ND<59	ND<36	39	190	-
	2/19/08	ND<20	ND<24	-	-	ND<20	ND<12	39	200	-
	4/21/08	ND<24	ND<29	-	-	ND<23	ND<15	70	170	-
	6/24/08	ND<24	ND<29	-	-	ND<23	ND<15	110	280	-
	7/16/08	ND<610	ND<720	-	-	ND<590	ND<360	ND<370	ND<660	-
	4/6/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	35	31	-
	7/22/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	64	31	-
8/24/09	-	-	-	-	-	-	-	-	-	
10/20/09	ND<8.1	ND<9.6	-	-	ND<7.8	ND<4.9	62	27	-	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
FORMER LUBRICATION COMPANY OF AMERICA
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Sample ID	Date Analyzed	4-Methyl-2-Pentanone (MIBK) ppbv	Methylene chloride ppbv	Nitrogen ppmv	Oxygen + Argon ppmv	Styrene ppbv	1,1,2,2-Tetrachloroethane ppbv	Tetrachloroethylene ppbv	Toluene ppbv	Total Gaseous Non-Methane Organics (TGNMO) ppmv
Influent	3/25/10	ND<8.1	ND<9.6	-	-	ND<7.8	ND<4.9	82	42	-
	8/27/10	ND<6.1	ND<7.2	-	-	ND<5.9	ND<3.6	81	54	-
	5/11/11	ND<5.0	ND<5.0	-	-	ND<5.0	ND<5.0	71	33	-
	7/25/11	ND<10	ND<10	-	-	ND<10	ND<10	35	160	-
	8/24/11	ND<2.5	2.3	-	-	ND<2.5	ND<2.5	33	43	-
	9/13/11	ND<2.5	2.6	-	-	ND<2.5	ND<2.5	25	93	-
	10/20/11	ND<2.5	ND<2.5	-	-	ND<2.5	ND<2.5	22	110	-
	11/17/11	197	ND<5.0	-	-	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-
	12/20/11	ND<50	ND<50	-	-	ND<50	ND<50	66	94	-
	1/17/2012	ND<50	ND<50	-	-	ND<50	ND<50	60	ND<50	-
	2/14/2012	ND<100	ND<100	-	-	ND<100	ND<100	380	100	-
	3/20/2012	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-
	4/17/2012	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-
	5/22/2012	ND<120	ND<120	-	-	ND<120	ND<120	ND<120	200	-
6/26/2012	ND<250	ND<250	-	-	ND<250	ND<250	ND<250	1300	-	
Mid GAC	5/12/06	ND<45	160	780000	25000	ND<45	ND<45	100	900	3800
	5/22/06	ND<5.0	ND<10	-	-	ND<5.0	ND<5.0	ND<2.5	6.7	-
	6/14/06	ND<20	ND<40	-	-	ND<20	ND<20	ND<10	ND<10	-
	7/6/06	6.5	27	-	-	ND<1.0	ND<1.0	0.59	5.1	-
	2/12/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	3/1/07	ND<9.8	ND<12	-	-	ND<9.4	ND<5.8	ND<5.9	ND<11	10
	4/11/07	2.3	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<11	0.4
	4/26/07	ND<20	ND<24	-	-	ND<20	ND<12	ND<12	ND<22	1
	5/10/07	ND<9.8	ND<12	-	-	ND<9.4	ND<5.8	ND<5.9	ND<11	0.60
	5/24/07	ND<5.4	ND<6.4	-	-	ND<5.2	ND<3.2	ND<3.3	ND<5.9	7.9
	6/7/07	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	8.2	7.7	8.8
	11/6/07	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	1.4	-
	12/6/07	ND<70	ND<82	-	-	ND<67	ND<42	ND<42	ND<76	-
	1/16/08	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	-
	2/19/08	ND<0.68	ND<4.0	-	-	ND<0.65	ND<0.4	ND<0.41	ND<0.74	-
	4/21/08	ND<20	ND<24	-	-	ND<20	ND<12	ND<12	ND<22	-
	7/16/08	ND<1200	ND<1400	-	-	ND<1200	ND<730	ND<740	ND<1300	-
	4/6/09	ND<24	ND<29	-	-	ND<23	ND<15	ND<15	ND<27	-
	7/22/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	ND<3.0	ND<5.3	-
	8/24/09	-	-	-	-	-	-	-	-	-
	10/20/09	ND<6.1	ND<7.2	-	-	ND<5.9	ND<3.6	ND<3.7	ND<6.6	-
	3/25/10	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	ND<3.0	ND<5.3	-
	8/27/10	ND<8.1	ND<9.6	-	-	ND<7.8	ND<4.9	ND<4.9	ND<8.8	-
	5/11/11	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-
	7/25/11	ND<10	ND<10	-	-	ND<10	ND<10	ND<10	210	-
	8/24/11	ND<2.5	5.6	-	-	0.4	ND<2.5	1	1.8	-
	9/13/11	ND<2.5	2	-	-	ND<2.5	ND<2.5	0.5	1.1	-
	10/20/11	ND<2.5	ND<2.5	-	-	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-
	11/17/11	ND<5.0	ND<5.0	-	-	ND<5.0	ND<5.0	18.6	63.4	-
	12/20/11	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-
1/17/2012	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-	
2/14/2012	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-	
3/20/2012	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-	
4/17/2012	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	-	
5/22/2012	ND<100	ND<100	-	-	ND<100	ND<100	140	160	-	
6/26/2012	ND<1000	ND<1000	-	-	ND<1000	ND<1000	ND<1000	1800	-	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	4-Methyl-2-Pentanone (MIBK) ppbv	Methylene chloride ppbv	Nitrogen ppmv	Oxygen + Argon ppmv	Styrene ppbv	1,1,2,2-Tetrachloroethane ppbv	Tetrachloroethylene ppbv	Toluene ppbv	Total Gaseous Non-Methane Organics (TGNMO) ppmv
Post GAC	5/12/06	ND<15	53	790000	27000	ND<15	ND<15	55	440	2000
	5/22/06	ND<1000	3900	-	-	ND<1000	ND<1000	ND<500	590	-
	6/14/06	ND<4.0	ND<8.0	-	-	ND<4.0	ND<4.0	ND<2.0	3.3	-
	7/6/06	5.1	35	-	-	ND<1.0	ND<1.0	ND<0.50	2.6	-
	2/12/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	3/1/07	ND<9.8	ND<12	-	-	ND<9.4	ND<5.8	ND<5.9	ND<11	8.0
	4/11/07	1.4	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	18	ND<0.17
	4/26/07	ND<15	ND<18	-	-	ND<15	ND<9.1	ND<9.2	ND<17	0.90
	5/10/07	ND<14	ND<17	-	-	ND<14	ND<8.6	ND<8.7	ND<16	1.9
	5/24/07	ND<9.8	ND<12	-	-	ND<9.4	ND<5.8	ND<5.9	ND<11	0.60
	6/7/07	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	ND<0.17
	11/6/07	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	1.4	-
	12/6/07	ND<70	ND<82	-	-	ND<67	ND<42	ND<42	ND<76	-
	1/16/08	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	-
	2/22/08	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	1.6	-
	4/21/08	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	15	-
	7/16/08	8.3	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	-
	4/6/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	ND<3	ND<5.3	-
	7/22/09	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	-
	8/24/09	ND<4.9	ND<5.8	-	-	ND<4.7	ND<2.9	ND<3.0	ND<5.3	-
	10/20/09	ND<1.7	ND<2.1	-	-	ND<1.7	ND<1	ND<1.1	ND<1.9	-
	3/25/10	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	ND<1.3	-
	8/27/10	ND<1.2	ND<1.4	-	-	ND<1.2	ND<0.73	ND<0.74	2.9	-
	5/11/11	ND<1.0	ND<1.0	-	-	2	ND<1.0	ND<1.0	2	-
	7/25/11	ND<2.5	ND<2.5	-	-	ND<2.5	ND<2.5	ND<2.5	150	-
	8/24/11	ND<2.5	2	-	-	0.4	ND<2.5	0.6	1.6	-
9/13/11	ND<2.5	1.8	-	-	0.6	ND<2.5	ND<2.5	1.2	-	
10/20/11	ND<2.5	5	-	-	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-	
11/17/11	ND<5.0	ND<5.0	-	-	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	
12/20/11	ND<10	ND<10	-	-	ND<10	ND<10	ND<10	ND<10	-	
1/17/2012	ND<10	ND<10	-	-	ND<10	ND<10	ND<10	ND<10	-	
2/14/2012	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-	
3/20/2012	ND<25	ND<25	-	-	ND<25	ND<25	ND<25	ND<25	-	
4/17/2012	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-	
5/22/2012	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	-	
6/26/2012	ND<5.0	ND<5.0	-	-	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	
Mid PP	6/14/06	ND<4.0	ND<8.0	-	-	ND<4.0	ND<4.0	ND<2.0	3.9	-
	7/6/06	4.7	40	-	-	ND<1.0	ND<1.0	ND<0.50	2.5	-
	2/12/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	3/1/07	-	ND<7.2	-	-	-	ND<3.6	ND<3.7	-	4.9
	4/11/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	4/26/07	-	ND<9.6	-	-	-	ND<4.9	ND<4.9	-	0.60
	5/10/07	-	ND<9.6	-	-	-	ND<4.9	ND<4.9	-	3.4
	5/24/07	-	ND<6.4	-	-	-	ND<3.2	ND<3.3	-	0.50
	6/7/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	11/6/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	1/16/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	2/19/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	4/21/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	7/16/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	4/6/09	-	ND<2.9	-	-	-	ND<1.5	ND<1.5	-	-
7/22/09	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	4-Methyl-2-Pentanone (MIBK) ppbv	Methylene chloride ppbv	Nitrogen ppmv	Oxygen + Argon ppmv	Styrene ppbv	1,1,2,2-Tetrachloroethane ppbv	Tetrachloroethylene ppbv	Toluene ppbv	Total Gaseous Non-Methane Organics (TGNMO) ppmv
Mid PP	8/24/09	-	ND<5.8	-	-	-	ND<2.9	ND<3.0	-	-
	10/20/09	-	ND<1.8	-	-	-	ND<0.91	ND<0.92	-	-
	3/25/10	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	8/27/10	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	5/11/11	-	ND<1.0	-	-	-	ND<1.0	ND<1.0	-	-
	7/25/11	-	ND<2.5	-	-	-	ND<2.5	ND<2.5	-	-
	8/24/11	-	2.6	-	-	-	ND<2.5	0.7	-	-
	9/13/11	-	2.8	-	-	-	ND<2.5	0.4	-	-
	10/20/11	-	5.4	-	-	-	ND<2.5	ND<2.5	-	-
	11/17/11	-	ND<5.0	-	-	-	ND<5.0	ND<5.0	-	-
	12/20/11	-	ND<5.0	-	-	-	ND<5.0	ND<5.0	-	-
	1/17/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-
	2/14/2012	-	ND<50	-	-	-	ND<50	ND<50	-	-
	3/20/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-
	4/17/2012	-	ND<50	-	-	-	ND<50	ND<50	-	-
5/22/2012	-	ND<50	-	-	-	ND<50	ND<50	-	-	
6/26/2012	-	ND<5.0	-	-	-	ND<5.0	ND<5.0	-	-	
Effluent	5/22/06	ND<2.0	6.5	-	-	ND<2.0	ND<2.0	ND<1.0	4.4	-
	6/14/06	ND<1.0	2.2	-	-	ND<1.0	ND<1.0	0.53	2.6	-
	7/6/06	3.5	33	-	-	ND<1.0	ND<1.0	ND<0.50	2.3	-
	2/12/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	3/1/07	-	ND<3.6	-	-	-	ND<1.8	ND<1.8	-	1.2
	4/11/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	4/26/07	-	ND<6.4	-	-	-	ND<3.2	ND<3.3	-	1.0
	5/10/07	-	ND<6.4	-	-	-	ND<3.2	ND<3.3	-	0.40
	5/24/07	-	ND<6.4	-	-	-	ND<3.2	ND<3.3	-	0.40
	6/7/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	ND<0.17
	11/6/07	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	12/6/07	ND<70	ND<82	-	-	ND<67	ND<42	ND<42	ND<76	-
	1/16/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	2/19/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	4/21/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	6/24/08	-	ND<29	-	-	-	ND<15	ND<15	-	-
	7/16/08	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	4/6/09	-	ND<5.8	-	-	-	ND<2.9	ND<3	-	-
	7/22/09	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	8/24/09	-	ND<5.8	-	-	-	ND<2.9	ND<3.0	-	-
	10/20/09	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	3/25/10	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	8/27/10	-	ND<1.4	-	-	-	ND<0.73	ND<0.74	-	-
	9/24/10	-	ND<29	-	-	-	ND<15	ND<15	-	-
	5/11/11	-	ND<1.0	-	-	-	ND<1.0	ND<1.0	-	-
	7/25/11	-	ND<2.5	-	-	-	ND<2.5	ND<2.5	-	-
	8/24/11	-	2.4	-	-	-	ND<1.2	4.4	-	-
	9/13/11	-	1.6	-	-	-	ND<2.5	ND<2.5	-	-
	10/20/11	-	5.4	-	-	-	4.3	ND<2.5	-	-
	11/17/11	-	ND<5.0	-	-	-	ND<5.0	ND<5.0	-	-
12/20/11	-	ND<2.5	-	-	-	ND<2.5	ND<2.5	-	-	
1/17/2012	-	ND<2.5	-	-	-	ND<2.5	4.1	-	-	
2/14/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-	
3/20/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-	
4/17/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-	
5/22/2012	-	ND<25	-	-	-	ND<25	ND<25	-	-	
6/26/2012	-	ND<2.5	-	-	-	ND<2.5	ND<2.5	-	-	
Discharge Limits	-	NA	1120	NA	NA	NA	210	450	NA	NA

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Acetate	Vinyl Chloride	m,p-Xylene	o-Xylene
		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Wellfield/Influent	5/12/06	ND<50	ND<25	ND<25	480	1400	650	ND<50	66000	2100	760
	5/22/06	ND<5.0	ND<2.5	ND<2.5	ND<2.5	34	11	ND<5.0	490	12	5.1
	2/12/07	-	ND<37	ND<37	990	-	-	ND<57	41000	1900	550
	3/1/07	-	5.1	ND<3.1	830	-	-	ND<4.7	3300	230	130
	4/11/07	-	ND<9.2	ND<9.2	1300	-	-	ND<14	8100	320	170
	4/26/07	-	ND<52	ND<52	2200	-	-	ND<81	7500	560	280
	5/10/07	-	ND<26	ND<26	1300	-	-	ND<41	2400	340	160
	5/24/07	-	ND<26	ND<26	1400	-	-	ND<41	1800	410	200
	6/7/07	-	ND<12	ND<12	850	-	-	ND<19	760	290	140
	2/19/08	-	ND<46	ND<46	410	-	-	ND<710	840	3200	710
	4/21/08	-	ND<18	ND<18	730	-	-	ND<280	560	1300	310
	7/16/08	-	ND<92	ND<92	630	-	-	ND<360	ND<270	ND<150	ND<120
	4/6/09	-	9.8	4.2	610	-	-	ND<57	620	59	20
	7/22/09	-	7.3	ND<3.7	500	-	-	ND<57	180	86	29
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	-	7.3	ND<4.6	560	-	-	ND<71	200	72	23
	3/25/10	-	16	11	1100	-	-	ND<95	690	120	55
	8/27/10	-	7.9	ND<3.1	380	-	-	ND<47	190	69	27
	5/11/11	-	ND<12	ND<12	740	-	-	ND<12	950	46	20
	7/25/11	-	ND<10	ND<10	410	-	-	ND<10	140	50	21
	8/24/11	-	4.4	ND<2.5	290	-	-	ND<2.5	54	33	14
	10/20/11	-	3.7	ND<2.5	380	-	-	ND<2.5	71	160	31
	11/17/11	-	ND<5.0	ND<5.0	187	-	-	ND<5.0	43.8	136	26
	12/20/11	-	ND<200	ND<200	460	-	-	ND<200	ND<200	610	ND<200
	1/17/2012	-	ND<200	ND<200	320	-	-	ND<200	ND<200	ND<200	ND<200
	2/14/2012	-	ND<200	ND<200	550	-	-	ND<200	ND<200	420	ND<200
3/20/2012	-	ND<100	ND<100	270	-	-	ND<100	ND<100	160	ND<100	
4/17/2012	-	ND<200	ND<200	280	-	-	ND<200	ND<200	ND<200	ND<200	
5/22/2012	-	ND<200	ND<200	ND<200	-	-	ND<200	ND<200	1100	290	
6/26/2012	-	ND<2000	ND<2000	ND<2000	-	-	ND<2000	ND<2000	5000	ND<2000	
Influent	6/14/06	ND<450	ND<220	ND<220	ND<220	ND<450	ND<220	ND<450	21000	ND<450	ND<220
	7/6/06	ND<4.0	11	ND<2.0	190	22	11	ND<4.0	14000	63	44
	2/12/07	-	ND<37	ND<37	810	-	-	ND<57	33000	1600	470
	3/1/07	-	7.2	ND<4.6	1100	-	-	ND<7.1	4800	290	160
	4/11/07	-	1.2	ND<1.0	140	-	-	ND<1.6	1100	76	35
	4/26/07	-	ND<7.3	ND<7.3	240	-	-	ND<11	920	64	30
	5/10/07	-	ND<5.2	ND<5.2	320	-	-	ND<8.1	710	66	31
	5/24/07	-	ND<5.2	ND<5.2	340	-	-	ND<8.1	520	55	26
	6/7/07	-	ND<3.7	ND<3.7	190	-	-	ND<5.7	190	51	25
	11/6/07	-	ND<180	ND<180	260	-	-	ND<1400	2100	3700	970
	12/6/07	-	ND<52	ND<52	420	-	-	ND<410	690	3000	610
	1/16/08	-	ND<46	ND<46	130	-	-	ND<710	420	1100	150
	2/19/08	-	ND<15	ND<15	130	-	-	ND<240	250	1100	240
	4/21/08	-	ND<18	ND<18	380	-	-	ND<280	270	750	180
	6/24/08	-	ND<18	ND<18	610	-	-	ND<280	360	1000	250
	7/16/08	-	ND<460	ND<460	ND<470	-	-	ND<7100	ND<980	ND<1200	ND<580
	4/6/09	-	3.9	ND<3.7	260	-	-	ND<57	240	27	9.4
	7/22/09	-	ND<3.7	ND<3.7	210	-	-	ND<57	97	30	11
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	-	ND<6.1	ND<6.1	250	-	-	ND<95	97	38	12

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
FORMER LUBRICATION COMPANY OF AMERICA
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Sample ID	Date Analyzed	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Acetate	Vinyl Chloride	m,p-Xylene	o-Xylene
		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Influent	3/25/10	-	ND<6.1	ND<6.1	320	-	-	ND<95	210	36	15
	8/27/10	-	4.9	ND<4.6	250	-	-	ND<71	120	45	17
	5/11/11	-	ND<5.0	ND<5.0	340	-	-	ND<5.0	530	21	9
	7/25/11	-	ND<10	ND<10	150	-	-	ND<10	57	28	14
	8/24/11	-	2.2	ND<2.5	150	-	-	ND<2.5	28	19	9.1
	9/13/11	-	1.4	ND<2.5	110	-	-	ND<2.5	22	130	30
	10/20/11	-	ND<2.5	ND<2.5	170	-	-	ND<2.5	41	120	23
	11/17/11	-	ND<5.0	ND<5.0	163	-	-	ND<5.0	23.2	ND<5.0	ND<5.0
	12/20/11	-	ND<50	ND<50	260	-	-	ND<50	84	240	50
	1/17/2012	-	ND<50	ND<50	250	-	-	ND<50	ND<50	ND<50	ND<50
	2/14/2012	-	ND<100	ND<100	350	-	-	ND<100	ND<100	200	ND<100
	3/20/2012	-	ND<50	ND<50	120	-	-	ND<50	ND<50	72	ND<50
	4/17/2012	-	ND<100	ND<100	190	-	-	ND<100	ND<100	120	ND<100
	5/22/2012	-	ND<120	ND<120	180	-	-	ND<120	ND<120	500	140
6/26/2012	-	ND<250	ND<250	ND<250	ND<250	-	-	ND<250	ND<250	1800	570
Mid GAC	5/12/06	ND<45	ND<22	ND<22	460	1500	680	ND<45	80000	2100	770
	5/22/06	ND<5.0	ND<2.5	ND<2.5	4.7	26	8.7	ND<5.0	1800	13	5.2
	6/14/06	ND<20	ND<10	ND<10	ND<10	ND<20	ND<10	ND<20	2100	ND<20	ND<10
	7/6/06	ND<1.0	ND<0.50	ND<0.50	5.9	12	5.6	ND<1.0	2900	9.9	2.5
	2/12/07	-	-	ND<0.92	ND<0.93	-	-	-	38	-	-
	3/1/07	-	ND<7.3	ND<7.3	ND<7.4	-	-	ND<11	8000	19	10
	4/11/07	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<1.4	780	44	18
	4/26/07	-	ND<15	ND<15	ND<16	-	-	ND<24	1900	28	ND<19
	5/10/07	-	ND<7.3	ND<7.3	ND<7.4	-	-	ND<11	1100	20	11
	5/24/07	-	ND<4.1	ND<4.1	190	-	-	ND<6.3	540	ND<5.1	ND<5.1
	6/7/07	-	ND<3.7	ND<3.7	210	-	-	ND<5.7	190	ND<0.46	ND<4.6
	11/6/07	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<7.1	3000	4.2	1.3
	12/6/07	-	67	ND<52	2000	-	-	ND<410	740	ND<66	ND<66
	1/16/08	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	ND<2.0	ND<2.3	ND<1.2
	2/19/08	-	2.5	ND<0.51	ND<0.52	-	-	ND<39	260	ND<0.83	ND<0.64
	4/21/08	-	ND<15	ND<15	110	-	-	ND<240	250	ND<38	ND<19
	7/16/08	-	ND<920	ND<920	ND<930	-	-	ND<14000	ND<2000	ND<2300	ND<1200
	4/6/09	-	ND<18	ND<18	ND<19	-	-	ND<280	330	ND<46	ND<23
	7/22/09	-	14	ND<3.7	ND<3.7	-	-	ND<57	140	ND<9.2	ND<4.6
	8/24/09	-	-	-	-	-	-	-	-	-	-
	10/20/09	-	34	ND<4.6	ND<4.7	-	-	ND<71	100	ND<12	ND<5.8
	3/25/10	-	4.7	ND<3.7	ND<3.7	-	-	ND<57	120	ND<9.2	ND<4.6
	8/27/10	-	ND<6.1	ND<6.1	650	-	-	ND<95	120	ND<15	ND<7.7
	5/11/11	-	ND<50	ND<50	ND<50	-	-	ND<50	370	ND<50	ND<50
	7/25/11	-	30	ND<10	ND<10	-	-	ND<10	120	50	25
	8/24/11	-	1.4	ND<2.5	ND<2.5	65	-	ND<2.5	41	0.8	0.6
	9/13/11	-	2.2	ND<2.5	ND<2.5	1500	-	ND<2.5	23	ND<2.5	ND<2.5
	10/20/11	-	5.8	ND<2.5	ND<2.5	ND<2.5	-	ND<2.5	47	ND<2.5	ND<2.5
	11/17/11	-	ND<5.0	ND<5.0	114	-	-	ND<5.0	26.6	78	15.2
	12/20/11	-	ND<100	ND<100	660	-	-	ND<100	ND<100	ND<100	ND<100
1/17/2012	-	ND<100	ND<100	ND<100	-	-	ND<100	ND<100	ND<100	ND<100	
2/14/2012	-	ND<100	ND<100	750	-	-	ND<100	ND<100	ND<100	ND<100	
3/20/2012	-	ND<50	ND<50	290	-	-	ND<50	ND<50	ND<50	ND<50	
4/17/2012	-	ND<100	ND<100	460	-	-	ND<100	ND<100	ND<100	ND<100	
5/22/2012	-	ND<100	ND<100	250	-	-	ND<100	ND<100	ND<100	ND<100	
6/26/2012	-	ND<1000	ND<1000	ND<1000	ND<1000	-	-	ND<1000	ND<1000	ND<1000	

TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
FORMER LUBRICATION COMPANY OF AMERICA
12500 Lang Station Road
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		1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Acetate	Vinyl Chloride	m,p-Xylene	o-Xylene
Sample ID	Date Analyzed	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Post GAC	5/12/06	ND<15	ND<7.5	ND<7.5	220	710	330	ND<15	4000	1000	370
	5/22/06	ND<1000	ND<500	ND<500	ND<500	ND<1000	ND<500	ND<1000	25000	ND<1000	ND<500
	6/14/06	ND<4.0	ND<2.0	ND<2.0	2.7	ND<4.0	ND<2.0	ND<4.0	490	ND<4.0	ND<2.0
	7/6/06	ND<1.0	ND<0.50	2.9	ND<0.50	3.4	1.5	ND<1.0	480	2.8	0.77
	2/12/07	-	-	ND<0.92	ND<0.93	-	-	-	2.6	-	-
	3/1/07	-	ND<7.3	ND<7.3	ND<7.4	-	-	ND<11	13000	23	13
	4/11/07	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<1.4	540	49	19
	4/26/07	-	ND<11	ND<11	ND<12	-	-	ND<18	1800	34	15
	5/10/07	-	ND<11	ND<11	ND<11	-	-	ND<17	1300	38	23
	5/24/07	-	ND<7.3	ND<7.3	ND<7.4	-	-	ND<11	960	ND<9.2	ND<9.2
	6/7/07	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<1.4	200	ND<0.12	ND<1.2
	11/6/07	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<7.1	ND<2	5.2	1.7
	12/6/07	-	68	ND<52	ND<53	-	-	ND<410	1800	ND<66	ND<66
	1/16/08	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	ND<2.0	ND<2.3	ND<1.2
	2/22/08	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	ND<2.0	3.6	1.2
	4/21/08	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	400	ND<2.3	ND<1.2
	7/16/08	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	500	2.5	ND<1.2
	4/6/09	-	ND<3.7	ND<3.7	ND<3.7	-	-	ND<57	610	ND<9.2	ND<4.6
	7/22/09	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	80	ND<2.3	ND<1.2
	8/24/09	-	21	ND<3.7	ND<3.7	-	-	ND<57	93	ND<9.2	ND<4.6
	10/20/09	-	ND<1.3	ND<1.3	ND<1.3	-	-	ND<20	160	ND<3.3	ND<1.6
	3/25/10	-	ND<0.92	ND<0.92	ND<0.93	-	-	ND<14	150	ND<2.3	ND<1.2
	8/27/10	-	1.8	ND<0.92	5.8	-	-	ND<14	96	ND<2.3	ND<1.2
	5/11/11	-	2	ND<1.0	ND<1.0	-	-	ND<1.0	8.7	ND<1.0	ND<1.0
	7/25/11	-	ND<2.5	ND<2.5	ND<2.5	-	-	ND<2.5	190	2.7	ND<2.5
	8/24/11	-	10	ND<2.5	2.2	-	-	ND<2.5	48	1.1	0.7
9/13/11	-	15	ND<2.5	ND<2.5	-	-	ND<2.5	27	2	0.8	
10/20/11	-	ND<2.5	ND<2.5	ND<2.5	-	-	ND<2.5	69	ND<2.5	ND<2.5	
11/17/11	-	ND<5.0	ND<5.0	ND<5.0	-	-	ND<5.0	24.6	ND<5.0	ND<5.0	
12/20/11	-	ND<10	ND<10	ND<10	-	-	ND<10	58	ND<10	ND<10	
1/17/2012	-	ND<10	ND<10	ND<10	-	-	ND<10	23	ND<10	ND<10	
2/14/2012	-	ND<50	ND<50	ND<50	-	-	ND<50	ND<50	ND<50	ND<50	
3/20/2012	-	ND<25	ND<25	ND<25	-	-	ND<25	38	ND<25	ND<25	
4/17/2012	-	ND<50	ND<50	ND<50	72	-	ND<50	72	ND<50	ND<50	
5/22/2012	-	ND<50	ND<50	ND<50	390	-	ND<50	ND<50	ND<50	ND<50	
6/26/2012	-	ND<5.0	ND<5.0	ND<5.0	30	-	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
Mid PP	6/14/06	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	ND<4.0	190	ND<4.0	ND<2.0
	7/6/06	ND<1.0	ND<0.50	2.4	ND<0.50	6.9	3.2	ND<1.0	270	5.7	1.5
	2/12/07	-	-	ND<0.92	ND<0.93	-	-	-	18	-	-
	3/1/07	-	-	ND<4.6	ND<4.7	-	-	-	5000	-	-
	4/11/07	-	-	ND<0.92	ND<0.93	-	-	-	490	-	-
	4/26/07	-	-	ND<6.1	ND<6.2	-	-	-	1100	-	-
	5/10/07	-	-	ND<6.1	ND<6.2	-	-	-	1000	-	-
	5/24/07	-	-	ND<4.1	ND<4.1	-	-	-	810	-	-
	6/7/07	-	-	ND<0.92	ND<0.93	-	-	-	170	-	-
	11/6/07	-	-	ND<0.92	ND<0.93	-	-	-	ND<2	-	-
	1/16/08	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	2/19/08	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	4/21/08	-	-	ND<0.92	ND<0.93	-	-	-	4.8	-	-
	7/16/08	-	-	ND<0.92	ND<0.93	-	-	-	9	-	-
4/6/09	-	-	ND<1.8	ND<1.9	-	-	-	42	-	-	
7/22/09	-	-	ND<0.92	ND<0.93	-	-	-	2.7	-	-	

**TABLE 1
SUMMARY OF SYSTEM VAPOR ANALYTICAL DATA
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Sample ID	Date Analyzed	1,2,4-Trichlorobenzene ppbv	1,1,1-Trichloroethane ppbv	1,1,2-Trichloroethane ppbv	Trichloroethylene ppbv	1,2,4-Trimethylbenzene ppbv	1,3,5-Trimethylbenzene ppbv	Vinyl Acetate ppbv	Vinyl Chloride ppbv	m,p-Xylene ppbv	o-Xylene ppbv
Mid PP	8/24/09	-	-	ND<3.7	ND<3.7	-	-	-	18	-	-
	10/20/09	-	-	ND<1.1	ND<1.2	-	-	-	32	-	-
	3/25/10	-	-	ND<0.92	ND<0.93	-	-	-	15	-	-
	8/27/10	-	-	ND<0.92	2.6	-	-	-	21	-	-
	5/11/11	-	-	ND<1.0	ND<1.0	-	-	-	2.8	-	-
	7/25/11	-	-	ND<2.5	ND<2.5	-	-	-	43	-	-
	8/24/11	-	-	ND<2.5	1.7	-	-	-	25	-	-
	9/13/11	-	-	ND<2.5	ND<2.5	-	-	-	25	-	-
	10/20/11	-	-	ND<2.5	ND<2.5	-	-	-	46	-	-
	11/17/11	-	-	ND<5.0	ND<5.0	-	-	-	19	-	-
	12/20/11	-	-	ND<5.0	ND<5.0	-	-	-	57	-	-
	1/17/2012	-	-	ND<25	410	-	-	-	28	-	-
	2/14/2012	-	-	ND<50	ND<50	-	-	-	ND<50	-	-
	3/20/2012	-	-	ND<25	ND<25	-	-	-	34	-	-
	4/17/2012	-	-	ND<50	74	-	-	-	70	-	-
5/22/2012	-	-	ND<50	590	-	-	-	56	-	-	
6/26/2012	-	-	ND<5.0	5.6	-	-	-	ND<5.0	-	-	
Effluent	5/22/06	ND<2.0	ND<1.0	ND<1.0	ND<1.0	50	16	ND<2.0	59	16	7.4
	6/14/06	ND<1.0	ND<0.50	ND<0.50	1.1	ND<1.0	0.72	ND<1.0	31	2.3	1.4
	7/6/06	ND<1.0	ND<0.50	2.2	ND<0.50	5.6	2.5	ND<1.0	41	4.4	1.1
	2/12/07	-	-	ND<0.92	ND<0.93	-	-	-	22	-	-
	3/1/07	-	-	ND<2.3	ND<2.3	-	-	-	2700	-	-
	4/11/07	-	-	ND<0.92	ND<0.93	-	-	-	340	-	-
	4/26/07	-	-	ND<4.1	ND<4.1	-	-	-	710	-	-
	5/10/07	-	-	ND<4.1	ND<4.1	-	-	-	720	-	-
	5/24/07	-	-	ND<4.1	ND<4.1	-	-	-	570	-	-
	6/7/07	-	-	ND<0.92	ND<0.93	-	-	-	170	-	-
	11/6/07	-	-	ND<0.92	ND<0.93	-	-	-	ND<2	-	-
	12/6/07	-	72	ND<52	ND<53	-	-	ND<410	ND<110	ND<66	ND<66
	1/16/08	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	2/19/08	-	-	ND<0.92	2.4	-	-	-	ND<2.0	-	-
	4/21/08	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	6/24/08	-	-	ND<18	ND<19	-	-	-	550	-	-
	7/16/08	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	4/6/09	-	-	ND<3.7	ND<3.7	-	-	-	ND<7.8	-	-
	7/22/09	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	8/24/09	-	-	ND<3.7	ND<3.7	-	-	-	ND<7.8	-	-
	10/20/09	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	3/25/10	-	-	ND<0.92	ND<0.93	-	-	-	ND<2.0	-	-
	8/27/10	-	-	ND<0.92	ND<0.93	-	-	-	5.8	-	-
	9/24/10	-	-	ND<18	ND<19	-	-	-	ND<39	-	-
	5/11/11	-	-	ND<1.0	ND<1.0	-	-	-	ND<1.0	-	-
	7/25/11	-	-	ND<2.5	ND<2.5	-	-	-	ND<2.5	-	-
	8/24/11	-	-	ND<1.2	ND<1.2	-	-	-	0.65	-	-
	9/13/11	-	-	ND<2.5	ND<2.5	-	-	-	6.9	-	-
	10/20/11	-	-	ND<2.5	ND<2.5	-	-	-	2.6	-	-
	11/17/11	-	-	ND<5.0	ND<5.0	-	-	-	ND<5.0	-	-
12/20/11	-	-	ND<2.5	ND<2.5	-	-	-	13	-	-	
1/17/2012	-	-	ND<2.5	35	-	-	-	5.4	-	-	
2/14/2012	-	-	ND<25	ND<25	-	-	-	ND<25	-	-	
3/20/2012	-	-	ND<25	ND<25	-	-	-	ND<25	-	-	
4/17/2012	-	-	ND<25	57	-	-	-	29	-	-	
5/22/2012	-	-	ND<25	350	-	-	-	ND<25	-	-	
6/26/2012	-	-	ND<2.5	2.8	-	-	-	ND<2.5	-	-	
Discharge Limits	-	NA	NA	210	450	NA	NA	NA	2270	NA	NA

Notes: ND = Not detected above laboratory reporting limit.
ppbv = parts per billion

NA = Not Applicable
(*) = All other constituent concentrations, if not listed, were "ND" for all samples

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride						1,1-Dichloroethane						Methylene Chloride					
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)			
5/12/06	6:30	System Start-Up																												
	12:30	NA	6.0	6.0	91	NM	12.5	4.5	677	575	504,000		66000		0.3691	2.2148	2.2148	2900		0.0257	0.1541	0.1541	170		0.0013	0.0078	0.0078			
	13:00	Turn System Off																												
5/22/06	8:30	System Start-Up																												
	9:30	NA	1.0	7.5	62	NM	14.2	1	529	511	27,000	CF _i	490		0.0024	0.0024	2.2172	1.25	m	0.0000	0.0000	0.1541	5	m	0.0000	0.0000	0.0078			
	12:00	Turn System Off																												
6/14/06	8:35	System Start-Up																												
	10:30	NA	1.9	11.9	86	0.25	13.4	2.6	329	300	16,740	CF _i	21000		0.0613	0.1175	2.3347	960		0.0044	0.0085	0.1626	1700		0.0067	0.0129	0.0207			
	11:50	Turn System Off																												
7/6/06	8:15	System Start-Up																												
	12:30	NA	4.3	17.5	95	NM	13.1	3.2	476	425	9,000		14000		0.0579	0.2460	2.5807	8.9		0.0001	0.0002	0.1629	4	m	0.0000	0.0001	0.0208			
	13:00	Turn System Off																												
2/12/07	9:30	System Start-Up																												
	10:30	1	1.0	19.0	75	0.75	14.7	0	871	871	3,456	CF _i , 1, 2	33000		0.2796	0.2796	2.8603	2000		0.0268	0.0268	0.1897	29	m	0.0003	0.0003	0.0211			
	12:00	3	1.5	20.5	75	0.75	14.7	0	827	827	5,292	CF _i	33000		0.2655	0.3982	3.2584	2000		0.0255	0.0382	0.2279	29	m	0.0003	0.0005	0.0216			
2/23/2007	8:30	Turn System Off																												
	9:30	Turn System On																												
	9:30	1	1.0	21.5	58	NM	12.2	5	991	825	244,000		33000	e	0.2648	0.2648	3.5232	2000	e	0.0254	0.0254	0.2533	29.0	e	0.0003	0.0003	0.0219			
	10:45	2	1.3	22.8	58	NM	12.2	5	1,046	871	238,000	2	32189	e	0.2727	0.3409	3.8641	1951	e	0.0262	0.0327	0.2860	28.3	e	0.0003	0.0004	0.0223			
	14:30	6	3.8	26.5	65	NM	12.2	5	941	784	94,300	2	12754	e	0.0973	0.3647	4.2288	773	e	0.0093	0.0350	0.3210	11.2	e	0.0001	0.0004	0.0228			
	14:50	6	0.3	26.8	65	NM	12.2	5	941	784	86,500	2	11699	e	0.0892	0.0294	4.2583	709	e	0.0086	0.0028	0.3238	10.3	e	0.0001	0.0000	0.0228			
	15:45	7	0.9	27.8	65	NM	12.2	5	933	777	56,200	2	7601	e	0.0574	0.0528	4.3111	461	e	0.0055	0.0051	0.3289	6.7	e	0.0001	0.0001	0.0229			
2/26/2007	8:00	72	64.3	92.0	57	NM	12.2	5	896	746	81,100	2, 3	10968	e	0.0674	4.3286	8.6398	665	e	0.0038	0.2454	0.5743	9.6	e	0.0001	0.0052	0.0280			
	13:00	77	5.0	97.0	70	NM	12.2	5	861	717	69,100	2	9345	e	0.0652	0.3259	8.9657	566	e	0.0063	0.0313	0.6055	8.2	e	0.0001	0.0004	0.0284			
	13:30	77	0.5	97.5	70	NM	12.2	5	861	717	76,600	2	10360	e	0.0723	0.0361	9.0018	628	e	0.0069	0.0035	0.6090	9.1	e	0.0001	0.0000	0.0285			
	14:40	78	1.2	98.7	Turn System Off																									
	9:40	Turn System On																												
2/28/2007	10:00	79	0.3	99.0	60	NM	12.0	5.5	887	724	73,200	2	9900	e	0.0697	0.0232	9.0250	600	e	0.0067	0.0022	0.6112	8.7	e	0.0001	0.0000	0.0285			
	12:15	81	2.3	101.3	60	NM	12.0	5.5	887	724	65,200	2	8818	e	0.0621	0.1397	9.1647	534	e	0.0060	0.0134	0.6247	7.7	e	0.0001	0.0002	0.0287			
	14:00	83	1.8	103.0	58	NM	12.0	5.5	800	653	2,000	2	270	e	0.0017	0.0030	9.1677	16	e	0.0002	0.0003	0.6249	0.2	e	0.0000	0.0000	0.0287			
	15:00	84	1.0	104.0	56	NM	12.2	5	882	735	64,000	2	8656	e	0.0619	0.0619	9.2296	525	e	0.0059	0.0059	0.6309	7.6	e	0.0001	0.0001	0.0287			
	8:15	101	17.3	121.3	51	NM	12.2	5	876	730	75,300	2	4800		0.0341	0.5879	9.8176	910		0.0102	0.1765	0.8074	3.6	m	0.0000	0.0006	0.0293			
3/1/2007	10:55	103	2.7	123.9	Turn System Off																									
3/29/2007	9:10	20	0.0	123.9	Turn System On																									
4/2/2007	8:15	114	95.1	219.0	57	NM	10.5	8.5	960	687	3,500		223	e	0.0015	0.1418	9.9593	42	e	0.0004	0.0426	0.8499	0.2	e	0.0000	0.0001	0.0295			
	10:30	116	2.3	221.3	70	NM	10.8	8	1035	758	0		0	e	0.0000	0.0000	9.9593	0	e	0.0000	0.0000	0.8499	0.0	e	0.0000	0.0000	0.0295			
	11:35	140	25.1	246.3	71	NM	10.3	9	1091	763	1,800	3	115	e	0.0004	0.0107	9.9700	22	e	0.0001	0.0032	0.8531	0.1	e	0.0000	0.0000	0.0295			
4/6/2007	13:00	142	1.4	247.8	76	NM	10.0	9.5	1114	760	0		0	e	0.0000	0.0000	9.9700	0	e	0.0000	0.0000	0.8531	0.0	e	0.0000	0.0000	0.0295			
	7:20	208	66.3	314.1	59	NM	11.3	7	1008	772	1,200	3	76	e	0.0003	0.0191	9.9891	15	e	0.0001	0.0057	0.8588	0.1	e	0.0000	0.0000	0.0295			
	8:20	209	1.0	315.1	59	NM	11.3	7	1008	772	700		45	e	0.0003	0.0003	9.9894	8	e	0.0001	0.0001	0.8589	0.0	e	0.0000	0.0000	0.0295			
	9:40	211	1.3	316.4	65	NM	10.5	8.5	1071	767	0		0	e	0.0000	0.0000	9.9894	0	e	0.0000	0.0000	0.8589	0.0	e	0.0000	0.0000	0.0295			
	11:00	212	1.3	317.8	65	NM	10.5	8.5	1071	767	700		45	e	0.0003	0.0004	9.9898	8	e	0.0001	0.0001	0.8591	0.0	e	0.0000	0.0000	0.0295			
4/9/2007	7:50	281	68.8	386.6	49	NM	11.3	7	1017	779	1,300	3	83	e	0.0005	0.0332	10.0231	16	e	0.0001	0.0100	0.8691	0.1	e	0.0000	0.0000	0.0296			
	9:15	282	1.4	388.0	49	NM	11.3	7	1017	779	200		13	e	0.0001	0.0001	10.0232	2	e	0.0000	0.0000	0.8691	0.0	e	0.0000	0.0000	0.0296			
	11:05	284	1.8	389.8	70	NM	10.8	8	998	731	200		13	e	0.0001	0.0002	10.0234	2	e	0.0000	0.0000	0.8691	0.0	e	0.0000	0.0000	0.0296			
	14:15	287	3.2	393.0	76	NM	10.3	9	1037	725	6,500		414	e	0.0029	0.0093	10.0326	79	e	0.0009	0.0028	0.8719	0.3	e	0.0000	0.0000	0.0296			
	15:40	289	1.4	394.4	76	NM	10.5	8.5	1013	725	6,300		402	e	0.0028	0.0040	10.0366	76	e	0.0009	0.0012	0.8731	0.3	e	0.0000	0.0000	0.0296			
16:45	290	1.1	395.5	75	NM	10.3	9	1054	737	3,600		229	e	0.0016	0.0018	10.0384	44	e	0.0005	0.0005	0.8737	0.2	e	0.0000	0.0000	0.0296				

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride						1,1-Dichloroethane					Methylene Chloride						
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)			
4/11/2007	7:45	328	39.0	434.5	48	NM	11.5	6.5	967	757	9,400	3	599	e	0.0031	0.1190	10.1574	114	e	0.0009	0.0357	0.9094	0.4	e	0.0000	0.0001	0.0297			
	9:45	330	2.0	436.5	63	NM	11.0	7.5	996	746	5,700		363	e	0.0026	0.0053	10.1627	69	e	0.0008	0.0016	0.9110	0.3	e	0.0000	0.0000	0.0297			
	11:15	331	1.5	438.0	63	NM	11.0	7.5	996	746	4,400		1100		0.0080	0.0120	10.1747	140		0.0016	0.0024	0.9134	0.8	m	0.0000	0.0000	0.0297			
4/13/2007	7:40	376	44.4	482.4	52	NM	11.3	7	984	754	8,300	3	1100		0.0081	0.3583	10.5330	140		0.0016	0.0722	0.9856	0.8	m	0.0000	0.0004	0.0301			
	9:15	377	1.6	484.0	60	NM	11.3	7	976	748	6,700		1100		0.0080	0.0127	10.5457	140		0.0016	0.0026	0.9881	0.8	m	0.0000	0.0000	0.0301			
	10:30	377	1.3	485.3	64	NM	11.0	7.5	994	745	5,900		1100		0.0080	0.0100	10.5556	140		0.0016	0.0020	0.9902	0.8	m	0.0000	0.0000	0.0301			
4/16/2007	7:40	448	69.2	554.4	49	NM	11.8	6	946	756	10,900	3	1100		0.0081	0.5595	11.1151	140		0.0016	0.1127	1.1029	0.8	m	0.0000	0.0006	0.0306			
	9:20	449	1.7	556.1	59	NM	11.0	7.5	1000	749	7,500		1100		0.0080	0.0134	11.1285	140		0.0016	0.0027	1.1056	0.8	m	0.0000	0.0000	0.0306			
	10:50	450	1.5	557.6	66	NM	11.0	7.5	993	744	5,700		1100		0.0080	0.0119	11.1404	140		0.0016	0.0024	1.1080	0.8	m	0.0000	0.0000	0.0307			
4/19/2007	15:20	526	76.5	634.1	69	NM	10.5	8.5	1028	736	5,700	3	1425	e	0.0090	0.6914	11.8318	181	e	0.0018	0.1393	1.2473	1.0	e	0.0000	0.0007	0.0313			
	17:00	527	1.7	635.8	63	NM	11.0	7.5	988	740	6,100		1525	e	0.0110	0.0183	11.8501	194	e	0.0022	0.0037	1.2510	1.1	e	0.0000	0.0000	0.0314			
4/21/2007	11:00	Turn System Off																												
4/24/2007	8:30	Turn System On																												
	14:25	575	47.9	683.7	77	NM	10.0	9.5	1078	736	4,200	3	1050	e	0.0092	0.4417	12.2918	134	e	0.0019	0.0890	1.3400	0.8	e	0.0000	0.0004	0.0318			
	17:00	577	2.6	686.3	79	NM	10.3	9	1043	729	4,000		1000	e	0.0071	0.0183	12.3101	127	e	0.0014	0.0037	1.3437	0.7	e	0.0000	0.0000	0.0318			
4/26/2007	14:00	622	45.1	731.3	79	NM	10.0	9.5	1068	729	7,600	3	1900	e	0.0103	0.4635	12.7736	242	e	0.0027	0.1224	1.4661	1.4	e	0.0000	0.0005	0.0323			
	15:40	623	1.6	732.9	79	NM	10.0	9.5	1068	729	5,100		920		0.0065	0.0103	12.7840	190		0.0021	0.0034	1.4695	6.0	m	0.0001	0.0001	0.0324			
4/28/2007	10:30	Turn System Off																												
5/1/2007	6:00	Turn System On																												
	8:10	667	45.0	777.9	60	NM	12.2	5	861	717	12,500	3	920		0.0064	0.2887	13.0727	190		0.0021	0.0944	1.5639	6.0	m	0.0001	0.0026	0.0349			
	9:45	669	1.4	779.3	68	NM	11.8	6	883	706	10,400		920		0.0063	0.0090	13.0816	190		0.0021	0.0029	1.5668	6.0	m	0.0001	0.0001	0.0350			
	10:50	670	1.3	780.6	73	NM	11.5	6.5	897	702	5,700		920		0.0063	0.0079	13.0895	190		0.0021	0.0026	1.5694	6.0	m	0.0001	0.0001	0.0351			
5/4/2007	9:45	740	70.9	851.5	56	NM	12.2	5	864	720	8,100	3	1461	e	0.0083	0.5913	13.6808	302	e	0.0027	0.1934	1.7628	9.5	e	0.0001	0.0052	0.0403			
	10:45	741	1.0	852.5	56	NM	12.2	5	864	720	6,100		1100	e	0.0077	0.0077	13.6885	227	e	0.0025	0.0025	1.7653	7.2	e	0.0001	0.0001	0.0404			
	12:30	742	1.8	854.3	73	NM	12.2	5	846	705	4,600		830	e	0.0057	0.0100	13.6985	171	e	0.0019	0.0033	1.7685	5.4	e	0.0001	0.0001	0.0405			
	13:40	744	1.2	855.4	74	NM	12.2	5	845	704	5,900		1064	e	0.0073	0.0085	13.7070	220	e	0.0024	0.0028	1.7713	6.9	e	0.0001	0.0001	0.0405			
	14:45	745	1.1	856.5	74	NM	12.2	5	845	704	4,900		884	e	0.0061	0.0066	13.7135	183	e	0.0020	0.0021	1.7735	5.8	e	0.0001	0.0001	0.0406			
5/7/2007	9:35	812	66.8	923.3	75	NM	11.3	7	919	704	9,900	3	1786	e	0.0091	0.6109	14.3245	369	e	0.0030	0.1998	1.9732	11.6	e	0.0001	0.0054	0.0460			
	11:00	814	1.4	924.7	74	NM	11.3	7	919	704	5,800		1046	e	0.0072	0.0101	14.3346	216	e	0.0023	0.0033	1.9765	6.8	e	0.0001	0.0001	0.0461			
	13:45	817	2.8	927.5	81	NM	11.3	7	912	699	7,500		1353	e	0.0092	0.0253	14.3599	279	e	0.0030	0.0083	1.9848	8.8	e	0.0001	0.0002	0.0463			
5/10/2007	10:45	884	69.0	996.5	82	NM	11.3	7	912	699	14,500	3	2616	e	0.0135	0.9309	15.2908	540	e	0.0058	0.4013	2.3861	17.1	e	0.0001	0.0083	0.0546			
	11:45	885	1.0	997.5	82	NM	11.3	7	912	699	15,900		2868	e	0.0195	0.0195	15.3103	592	e	0.0064	0.0064	2.3925	18.7	e	0.0002	0.0002	0.0548			
	13:15	887	1.5	999.0	84	NM	11.3	7	910	697	14,300		710		0.0048	0.0072	15.3175	210		0.0023	0.0034	2.3958	4.1	m	0.0000	0.0001	0.0548			
	15:00	Turn System Off																												
5/18/2007	15:05	Turn System On																												
	9:15	1074	187.9	1,186.9	68	2.1	11.3	7	910	697	13,300	3	660	e	0.0046	0.8726	16.1901	195	e	0.0022	0.4087	2.8045	3.8	e	0.0000	0.0068	0.0617			
	10:40	1075	1.4	1,188.3	68	2.2	11.3	7	931	713	12,900		640	e	0.0044	0.0063	16.1964	189	e	0.0021	0.0029	2.8075	3.7	e	0.0000	0.0000	0.0617			
	13:45	1078	3.1	1,191.4	68	NM	11.3	7	924	708	12,200		606	e	0.0042	0.0129	16.2093	179	e	0.0020	0.0060	2.8135	3.5	e	0.0000	0.0001	0.0618			
	14:45	1079	1.0	1,192.4	83	NM	11.8	6	902	721	7,900		392	e	0.0028	0.0028	16.2120	116	e	0.0013	0.0013	2.8148	2.3	e	0.0000	0.0000	0.0618			
5/24/2007	12:00	1221	141.8	1,334.2	79	2.2	11.3	7	921	706	12,500	3	621	e	0.0035	0.4929	16.7049	184	e	0.0016	0.2308	3.0456	3.6	e	0.0000	0.0039	0.0657			
	13:00	1222	1.0	1,335.2	79	2.2	11.3	7	921	706	12,600		626	e	0.0043	0.0043	16.7092	185	e	0.0020	0.0020	3.0476	3.6	e	0.0000	0.0000	0.0657			
	15:05	1224	2.1	1,337.2	81	NM	11.3	7	943	722	11,900		591	e	0.0041	0.0086	16.7178	175	e	0.0019	0.0040	3.0516	3.4	e	0.0000	0.0001	0.0658			
	16:05	1225	1.0	1,338.2	81	NM	11.3	7	943	722	13,500		520		0.0037	0.0037	16.7215	160		0.0018	0.0018	3.0534	4.1	m	0.0000	0.0000	0.0658			
5/30/2007	9:15	1360	137.2	1,475.4	67	NM	11.3	7	954	731	35,100	3	520		0.0037	0.5072	17.2286	160		0.0018	0.2471	3.3005	4.1	m	0.0000	0.0054	0.0713			
	10:30	1361	1.3	1,476.7	74	NM	11.8	6	909	727	31,500		520		0.0037	0.0046	17.2332	160		0.0018	0.0022	3.3028	4.1	m	0.0000	0.0000	0.0713			
	11:45	1362	1.3	1,477.9	74	NM	11.8	6	909	727	27,600		520		0.0037	0.0046	17.2378	160		0.0018	0.0022	3.3050	4.1	m	0.0000	0.0000	0.0714			
	14:00	1365	2.3	1,480.2	77	NM	11.8	6	907	725	22,700																			

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride					1,1-Dichloroethane					Methylene Chloride					
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	
COMPOUND EXPANSION																												
		System Start-Up																										
11/5/2007	8:54	1573																										
	10:05	1574	1.2	1,672.1	89	NM	12.2	5	591	492	45,100			83	e	0.0004	0.0005	20.3388	37	e	0.0003	0.0003	4.8164	1.3	e	0.0000	0.0000	0.1046
	14:35	1578	4.5	1,676.6	96	NM	11.8	6	669	535	60,400			111	e	0.0006	0.0026	20.3414	50	e	0.0004	0.0018	4.8183	1.7	e	0.0000	0.0001	0.1047
	8:20	1595	17.8	1,694.3	68	NM	12.2	5	646	538	105,000	3		194	e	0.0008	0.0142	20.3555	87	e	0.0006	0.0100	4.8283	3.0	e	0.0000	0.0003	0.1050
11/6/2007	12:00	1600	3.7	1,698.0	93	NM	11.8	6	685	548	74,200			137	e	0.0007	0.0027	20.3582	61	e	0.0005	0.0019	4.8302	2.1	e	0.0000	0.0001	0.1050
	12:45	Turn System Off to drain Knock Out Pot																										
	13:05	System Start-Up																										
	14:15	1602	1.9	1,699.9	93	NM	11.8	6	672	537	69,700			2100		0.0110	0.0210	20.3792	125	m	0.0010	0.0020	4.8322	145.0	m	0.0010	0.0020	0.1070
	9:00	1643	42.8	1,742.7	65	NM	12.7	4	649	562	228,000	3		2100		0.0115	0.4908	20.8700	125	m	0.0011	0.0463	4.8785	145.0	m	0.0011	0.0460	0.1531
	10:30	Turn System Off to drain Knock Out Pot																										
11/8/2007	11:00	System Start-Up																										
	13:00	1648	3.5	1,746.2	85	1.3	12.7	4	662	574	91,500			2757	e	0.0154	0.0539	20.9238	164	e	0.0015	0.0051	4.8835	190.4	e	0.0014	0.0051	0.1581
	14:30	1649	1.5	1,747.7	86	1	12.7	4	580	503	113,000			3405	e	0.0167	0.0250	20.9488	203	e	0.0016	0.0024	4.8859	235.1	e	0.0016	0.0023	0.1604
	16:40	1651	2.2	1,749.8	79	NM	14.2	1	439	424	170,000			5122	e	0.0211	0.0458	20.9946	305	e	0.0020	0.0043	4.8902	353.7	e	0.0020	0.0043	0.1647
	10:30	Turn System Off to drain Knock Out Pot																										
11/12/2007	13:10	System Start-Up																										
	13:30	1740	90.2	1,840.0	78	NM	13.2	3	518	466	146,000	3		4399	e	0.0216	1.9456	22.9402	262	e	0.0020	0.1834	5.0736	303.7	e	0.0020	0.1826	0.3473
	15:20	1742	1.8	1,841.8	83	NM	10.8	8	819	600	3,700			111	e	0.0007	0.0012	22.9414	7	e	0.0001	0.0001	5.0737	7.7	e	0.0001	0.0001	0.3474
	10:45	Turn System Off to test alarm																										
11/13/2007	11:15	System Start-Up																										
	11:40	1762	19.8	1,861.7	67	NM	13.7	2	417	389	200	3		6	e	0.0002	0.0044	22.9458	0	e	0.0000	0.0004	5.0741	0.4	e	0.0000	0.0004	0.3478
	13:45	1764	2.1	1,863.8	77	NM	12.7	4	498	431	141,000			4248	e	0.0178	0.0371	22.9829	253	e	0.0017	0.0035	5.0776	293.3	e	0.0017	0.0035	0.3513
	15:15	1766	1.5	1,865.3	88	0.8	12.7	4	518	449	184,000			5544	e	0.0242	0.0363	23.0192	330	e	0.0023	0.0034	5.0810	382.8	e	0.0023	0.0034	0.3547
11/15/2007	9:30	1808	42.3	1,907.5	66	0.8	13.2	3	519	467	134,000	3		4037	e	0.0218	0.9193	23.9384	240	e	0.0021	0.0866	5.1677	278.8	e	0.0020	0.0863	0.4410
	15:15	1814	6.4	1,913.9	78	1.3	12.2	5	680	566	148,000			4459	e	0.0246	0.1576	24.0960	265	e	0.0023	0.0149	5.1825	307.9	e	0.0023	0.0148	0.4557
	7:15	1830	15.8	1,929.8	54	1.3	13.2	3	669	602	255,000	3		7683	e	0.0356	0.5630	24.6590	457	e	0.0034	0.0531	5.2356	530.5	e	0.0033	0.0528	0.5086
11/16/2007	9:10	1832	1.5	1,931.3	56	2.35	11.8	6	953	762	115,000			3465	e	0.0257	0.0385	24.6975	206	e	0.0024	0.0036	5.2392	239.2	e	0.0024	0.0036	0.5122
	10:15	1833	Turn System Off due to high field concentrations																									
	12:30	System Start-Up																										
12/6/2007	13:15	1833	1.8	1,933.0	60	2.65	11.3	7	1030	789	206,000			6207	e	0.0476	0.0833	24.7808	369	e	0.0045	0.0079	5.2471	428.6	e	0.0045	0.0078	0.5200
	14:15	1834	1.0	1,934.0	62	2.65	11.3	7	1028	787	257,000			690		0.0053	0.0053	24.7861	160		0.0019	0.0019	5.2490	41.0	m	0.0004	0.0004	0.5204
	16:05	1836	Turn System Off due to high field concentrations																									
1/15/2008	8:00	Carbon Change Out																										
	16:22	1836	System Start-Up																									
	17:20	1837	1.0	1,935.0	76	1.4	13.7	2	668	623	216,000			580	e	0.0035	0.0035	24.7896	134	e	0.0013	0.0013	5.2503	34.5	e	0.0003	0.0003	0.5207
1/16/2008	9:30	1853	16.2	1,951.2	54	1.5	14.2	1	694	670	239,000	3		642	e	0.0040	0.0644	24.8540	149	e	0.0015	0.0236	5.2739	38.1	e	0.0003	0.0052	0.5259
	11:36	1855	2.1	1,953.3	54	1.5	14.2	1	694	670	191,000			420		0.0027	0.0058	24.8598	69		0.0007	0.0015	5.2754	36.0	m	0.0003	0.0007	0.5266
1/21/2008	9:52	1948	118.3	2,071.5	44	NM	NM	NM	623	623	161,000	3		420		0.0025	0.3008	25.1606	69		0.0007	0.0782	5.3537	36.0	m	0.0003	0.0350	0.5616
2/12/2008	11:00	2063	115.0	2,186.5	66	1.5	13.2	3	711	639	190,000	3		420		0.0026	0.3004	25.4609	69		0.0007	0.0781	5.4318	36.0	m	0.0003	0.0350	0.5966
	15:15	2068	4.8	2,191.4	78	1.5	13.2	3	703	632	166,000			420		0.0026	0.0125	25.4734	69		0.0007	0.0032	5.4350	36.0	m	0.0003	0.0015	0.5981
2/13/2008	13:33	2076	7.6	2,199.0	79	1.2	13.2	3	628	565	167,000	3		420		0.0023	0.0175	25.4909	69		0.0006	0.0046	5.4396	36.0	m	0.0003	0.0020	0.6001
2/19/2008	8:54	2125	49.0	2,248.0	64	1.5	14.7	0	675	675	238,000			250		0.0016	0.0805	25.5714	39		0.0004	0.0199	5.4595	12.0	m	0.0001	0.0052	0.6053
	8:30	2269	144.0	2,392.0	72	1.5	13.7	2	694	647	136,000	3		250		0.0016	0.2267	25.7981	39		0.0004	0.0560	5.5155	12.0	m	0.0001	0.0148	0.6201
3/10/2008	11:40	2272	3.2	2,395.1	69	1.3	13.7	2	648	604	135,000			142	e	0.0008	0.0026	25.8007	22	e	0.0002	0.0007	5.5161	6.8	e	0.0001	0.0002	0.6203
	12:45	2273	1.1	2,396.2	78	1.3	13.2	3	654	589	111,000			117	e	0.0007	0.0007	25.8015	18	e	0.0002	0.0002	5.5163	5.6	e	0.0000	0.0000	0.6204
	7:30	2310	36.8	2,433.0	66	1.35	14.2	1	650	629	114,000	3		120	e	0.0007	0.0266	25.8280	19	e	0.0002	0.0066	5.5229	5.7	e	0.0000	0.0017	0.6221
3/19/2008	10:50	2313	3.3	2,436.3	62	1.4	11.8	6	731	584	72,300			76	e	0.0004	0.0014	25.8295	12	e	0.0001	0.0004	5.5232	3.6	e	0.0000	0.0001	0.6222
	14:30	2317	3.7	2,440.0	75	1.35	12.0	5.5	702	573	48,100			51	e	0.0003	0.0010	25.8305	8	e	0.0001	0.0003	5.5235	2.4	e	0.0000	0.0001	0.6222

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
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Date	Time	System Operational Data											Vinyl Chloride						1,1-Dichloroethane				Methylene Chloride										
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)						
3/26/2008	9:20	2351	34.0	2,474.0	70	1.5	12.2	5	736	613	73,400	3	77	e	0.0004	0.0129	25.8434	12	e	0.0001	0.0032	5.5267	3.7	e	0.0000	0.0008	0.6231						
	10:20	2352	1.0	2,475.0	70	1.5	11.8	6	751	600	31,100		33	e	0.0002	0.0002	25.8436	5	e	0.0000	0.0000	5.5267	1.6	e	0.0000	0.0000	0.6231						
	11:45	2353	1.4	2,476.4	74	1.5	10.8	8	782	573	22,700		24	e	0.0001	0.0002	25.8438	4	e	0.0000	0.0000	5.5268	1.1	e	0.0000	0.0000	0.6231						
	13:45	2355	2.0	2,478.4	77	1.5	10.8	8	779	571	20,100		21	e	0.0001	0.0002	25.8440	3	e	0.0000	0.0001	5.5268	1.0	e	0.0000	0.0000	0.6231						
	14:35	2356	0.8	2,479.2	77	1.5	11.8	6	746	597	21,800		23	e	0.0001	0.0001	25.8442	4	e	0.0000	0.0000	5.5269	1.1	e	0.0000	0.0000	0.6231						
	15:13	2357	0.6	2,479.8	76	1.5	11.8	6	747	597	21,400		22	e	0.0001	0.0001	25.8442	4	e	0.0000	0.0000	5.5269	1.1	e	0.0000	0.0000	0.6231						
4/21/2008	12:30	2453	96.1	2,576.0	68	1.5	11.8	6	752	602	95,100		270		0.0016	0.1519	25.9961	130		0.0012	0.1158	5.6426	14.5	m	0.0001	0.0111	0.6342						
6/13/2008	9:15	2613	160.0	2,736.0	78	1.35	11.3	7	722	553	102,000	3	270		0.0015	0.2326	26.2286	130		0.0011	0.1773	5.8199	15.0	m	0.0001	0.0173	0.6515						
	11:10	2615	1.9	2,737.9	83	1.35	10.8	8	735	539	91,500		270		0.0014	0.0027	26.2313	130		0.0011	0.0020	5.8220	14.5	m	0.0001	0.0002	0.6517						
6/24/2008	8:15	2768	153.0	2,890.9	81	1.5	11.3	7	759	582	159,000		360		0.0020	0.3117	26.5430	150		0.0013	0.2056	6.0276	14.5	m	0.0001	0.0171	0.6687						
	9:30	2769	1.3	2,892.1	81	1.5	11.3	7	759	582	160,000		360		0.0020	0.0025	26.5455	150		0.0013	0.0017	6.0293	14.5	m	0.0001	0.0001	0.6689						
7/2/2008	Carbon Change Out																																
	8:30	2770	1.0	2,893.1	92.7	1.3	12.7	4	658	570	125,000	3	283	e	0.0018	0.0018	26.5473	118	e	0.0012	0.0012	6.0305	11.4	e	0.0001	0.0001	0.6690						
	12:50	2774	4.3	2,897.4	103.7	1.3	10.3	9	725	507	86,900		197	e	0.0010	0.0042	26.5515	82	e	0.0006	0.0028	6.0332	7.9	e	0.0001	0.0002	0.6692						
	7:45	2924	150.0	3,047.4	80	1.25	12.0	5.5	672	549	139,000	3	315	e	0.0014	0.2047	26.7562	131	e	0.0009	0.1351	6.1683	12.7	e	0.0001	0.0112	0.6804						
	11:55	2928	4.2	3,051.6	96	1.25	10.8	8	699	512	102,000	4	231	e	0.0012	0.0048	26.7610	96	e	0.0008	0.0032	6.1715	9.3	e	0.0001	0.0003	0.6807						
	15:00	2931	3.1	3,054.7	98	1.25	10.5	8.5	706	506	262,000		593	e	0.0029	0.0090	26.7700	247	e	0.0019	0.0059	6.1774	23.9	e	0.0002	0.0005	0.6812						
7/16/2008	16:00	2932	1.0	3,055.7	95	1.65	10.0	9.5	833	569	274,000		620	e	0.0034	0.0034	26.7735	258	e	0.0023	0.0023	6.1797	25.0	e	0.0002	0.0002	0.6814						
	16:30	Turn System Off due to high field concentrations																															
10/21/2008	Carbon Change Out																																
10/27/2008	System Start-Up																																
	7:45																																
	8:15	2933	0.5	3,056.2	68.2	1.25	12.0	5.5	680	555	72,000		163	e	0.0009	0.0004	26.7739	68	e	0.0006	0.0003	6.1799	6.6	e	0.0000	0.0000	0.6814						
	9:15	2934	1.0	3,057.2	75.6	1.45	11.3	7	750	575	52,100		118	e	0.0007	0.0007	26.7746	49	e	0.0004	0.0004	6.1804	4.8	e	0.0000	0.0000	0.6814						
	11:40	2936	2.4	3,059.6	88.2	1.4	10.3	9	763	533	41,000		93	e	0.0005	0.0012	26.7757	39	e	0.0003	0.0008	6.1811	3.7	e	0.0000	0.0001	0.6815						
	13:30	2938	1.8	3,061.4	94.7	1.4	10.3	9	758	530	35,200		80	e	0.0004	0.0008	26.7765	33	e	0.0003	0.0005	6.1816	3.2	e	0.0000	0.0000	0.6815						
15:30	2940	2.0	3,063.4	94.5	1.4	10.3	9	759	530	36,800		83	e	0.0004	0.0009	26.7773	35	e	0.0003	0.0006	6.1822	3.4	e	0.0000	0.0000	0.6816							
11/12/2008	7:30	3058	118.0	3,181.4	70.6	1.3	12.0	5.5	692	564	898,000	3	2033	e	0.0058	0.6856	27.4630	847	e	0.0038	0.4523	6.6345	81.9	e	0.0003	0.0375	0.7191						
	13:00	3061	3.0	3,184.4	81.9	1.6	9.8	10	841	560	4,800		11	e	0.0001	0.0002	27.4631	5	e	0.0000	0.0001	6.6347	0.4	e	0.0000	0.0000	0.7191						
	14:00	3062	1.0	3,185.4	80.3	1.6	9.8	10	842	561	2,600		6	e	0.0000	0.0000	27.4632	2	e	0.0000	0.0000	6.6347	0.2	e	0.0000	0.0000	0.7191						
	15:55	3064	2.0	3,187.4	77.2	2.5	10.3	9	1030	720	124,000		281	e	0.0020	0.0039	27.4671	117	e	0.0013	0.0026	6.6373	11.3	e	0.0001	0.0002	0.7193						
11/13/2008	12:25	3072	8.0	3,195.4	82.6	1.8	9.1	11.5	927	570	2,600		6	e	0.0000	0.0003	27.4674	2	e	0.0000	0.0002	6.6374	0.2	e	0.0000	0.0000	0.7193						
	14:00	3074	2.0	3,197.4	84.4	1.3	11.5	6.5	697	546	334,000		756	e	0.0040	0.0080	27.4754	315	e	0.0026	0.0053	6.6427	30.5	e	0.0002	0.0004	0.7198						
	15:30	3075	1.5	3,198.9	80.5	1.3	11.8	6	692	554	345,000		781	e	0.0042	0.0063	27.4817	325	e	0.0028	0.0042	6.6469	31.5	e	0.0002	0.0003	0.7201						
1/14/2009	7:30	3240	165.0	3,363.9	56	1.5	12.5	4.5	738	627	30,400	3	69	e	0.0026	0.4279	27.9096	29	e	0.0017	0.2823	6.9292	2.8	e	0.0001	0.0234	0.7435						
	9:30	3241	2.0	3,365.9	61	1.5	11.8	6	757	606	27,200		62	e	0.0004	0.0007	27.9103	26	e	0.0002	0.0005	6.9297	2.5	e	0.0000	0.0000	0.7436						
	11:35	3244	2.1	3,368.0	73	1.5	11.3	7	765	586	23,800		54	e	0.0003	0.0006	27.9109	22	e	0.0002	0.0004	6.9301	2.2	e	0.0000	0.0000	0.7436						
1/20/2009	10:15	3309	65.0	3,433.0	69.1	1.5	11.3	7	768	588	31,000	3	70	e	0.0004	0.0259	27.9368	29	e	0.0003	0.0171	6.9471	2.8	e	0.0000	0.0014	0.7450						
	11:15	3310	1.0	3,434.0	71.6	1.4	11.5	6.5	732	573	27,100		61	e	0.0003	0.0003	27.9371	26	e	0.0002	0.0002	6.9474	2.5	e	0.0000	0.0000	0.7450						
3/25/2009	13:30	3452	142.0	3,576.0	73	1.5	11.3	7	765	586	46,700	3	106	e	0.0005	0.0676	28.0048	44	e	0.0003	0.0446	6.9920	4.3	e	0.0000	0.0037	0.7487						
	16:30	3455	3.0	3,579.0	76	1.5	11.3	7	763	584	57,000		129	e	0.0007	0.0022	28.0070	54	e	0.0005	0.0015	6.9934	5.2	e	0.0000	0.0001	0.7489						
4/6/2009	14:30	3599	144.0	3,723.0	76	1.5	10.8	8	780	572	25,200		240		0.0013	0.1921	28.1991	96		0.0008	0.1217	7.1151	2.9	m	0.0000	0.0032	0.7520						
	16:30	Shut Down System Due to High Field Concentrations																															
4/16/2009	Carbon Change Out																																
	System Start-Up																																
	13:45																																
4/16/2009	14:30	3602	3.0	3,726.0	68	1.4	10.5	8.5	768	550	800		8	e	0.0000	0.0001	28.1992	3	e	0.0000	0.0001	7.1152	0.1	e	0.0000								

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride						1,1-Dichloroethane					Methylene Chloride										
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)							
8/21/2009	9:10	4645	164	4,769.3	81.4	1.7	10.8	8	826	605	59,800	3	97		0.0006	0.0937	29.5060	85		0.0008	0.1300	8.1407	2.9	m	0.0000	0.0038	0.7798							
8/24/2009	12:00	4649	4	4,773.3	93.1	1.5	10.3	9	786	550	37,500	3	97		0.0005	0.0021	29.5081	85		0.0007	0.0029	8.1436	2.9	m	0.0000	0.0001	0.7799							
9/14/2009		Carbon Change Out																																
9/16/2009	12:20	4661	12	4,785.3	106	1.4	10.3	9	751	525	41,400	3	97		0.0005	0.0059	29.5140	85		0.0007	0.0082	8.1519	2.9	m	0.0000	0.0002	0.7802							
9/30/2009	13:30	4813	152	4,937.3	90.5	1.7	11.3	7	801	614	56,200	3	97		0.0006	0.0880	29.6021	85		0.0008	0.1222	8.2740	2.9	m	0.0000	0.0036	0.7837							
10/20/2009	13:20	4916	103	5,040.3	83.9	1.75	10.8	8	837	613	50,500	3	97		0.0006	0.0596	29.6616	100		0.0009	0.0972	8.3712	4.8	m	0.0000	0.0040	0.7877							
11/4/2009	8:45	5058	142	5,182.3	68.6	1.6	10.8	8	811	594	114,000	3	219	e	0.0009	0.1297	29.7913	226	e	0.0015	0.2117	8.5830	10.8	e	0.0001	0.0087	0.7965							
11/25/2009	7:45	5221	163	5,345.3	63.2	1.6	11.3	7	798	611	44,300	3	85	e	0.0009	0.1473	29.9386	88	e	0.0015	0.2404	8.8234	4.2	e	0.0001	0.0099	0.8064							
12/29/2009	13:50	5351	130	5,475.3	60.7	1.4	11.3	7	748	573	33,200	3	64	e	0.0004	0.0539	29.9925	66	e	0.0007	0.0880	8.9114	3.2	e	0.0000	0.0036	0.8100							
1/5/2010	13:00	5360	9	5,484.3	67.9	1.65	10.8	8	824	604	30,000	3	58	e	0.0004	0.0032	29.9957	59	e	0.0006	0.0052	8.9166	2.9	e	0.0000	0.0002	0.8102							
3/25/2010	15:30	5521	161	5,645.3	72.6	1.6	10.8	8	808	592	49,500	3	210		0.0012	0.1948	30.1905	200		0.0018	0.2937	9.2103	4.8	m	0.0000	0.0060	0.8163							
5/14/2010	12:45	5690	169	5,814.3	85.3	1.6	10.0	9.5	828	565	31,300	3	210		0.0012	0.1950	30.3855	200		0.0017	0.2941	9.5044	4.8	m	0.0000	0.0061	0.8223							
6/21/2010	10:00	5850	160	5,974.3	76.5	NA	10.5	8.5	849	608	22,800	3	210		0.0012	0.1987	30.5842	200		0.0019	0.2996	9.8040	4.8	m	0.0000	0.0062	0.8285							
7/16/2010	11:30	5979	129	6,103.3	95.2	NA	9.5	10.5	923	599	27,700	3	210		0.0012	0.1578	30.7420	200		0.0018	0.2380	10.0420	4.8	m	0.0000	0.0049	0.8334							
8/13/2010	11:30	6123	144	6,247.3	100.3	NA	9.8	10	949	632	52,800	3	224	e	0.0013	0.1921	30.9341	213	e	0.0020	0.2897	10.3317	5.1	e	0.0000	0.0060	0.8394							
	14:50	6126	3	6,250.3	101.9	NA	9.8	10	948	631	69,000	3	293	e	0.0018	0.0054	30.9395	279	e	0.0027	0.0081	10.3398	6.7	e	0.0001	0.0002	0.8395							
8/27/2010	10:00	6239	113	6,363.3	98.3	NA	9.8	10	933	621	52,000	3	120		0.0007	0.0819	31.0214	170		0.0016	0.1837	10.5236	3.6	m	0.0000	0.0033	0.8429							
9/24/2010	11:25	6399	160	6,523.3	94.7	NA	9.8	10	958	638	53,400	3	120		0.0007	0.1192	31.1406	170		0.0017	0.2673	10.7908	3.6	m	0.0000	0.0049	0.8477							
4/15/2011	7:40	Carbon Change Out																																
5/11/2011	11:00	6402	1	6,524.3	84	1.6	11.0	8	791	593	69,000		120		0.0007	0.0007	31.1412	170		0.0016	0.0016	10.7924	3.6	m	0.0000	0.0000	0.8477							
	13:45	6404	2.75	6,527.0	97	1.7	10.8	8	815	597	48,200		530		0.0031	0.0085	31.1497	240		0.0022	0.0061	10.7984	2.5		0.0000	0.0001	0.8478							
7/20/2011	8:30	19416	47.00	6,574.0	80	1.4	10.0	10	764	522	66,000	3	530		0.0027	0.1264	31.2761	240		0.0019	0.0906	10.8891	2.5		0.0000	0.0008	0.8486							
7/25/2011	10:20	19536	120.00	6,694.0	97	1.6	10.3	9	809	566	74,700	3	57		0.0003	0.0377	31.3137	54		0.0005	0.0565	10.9455	5.0	m	0.0000	0.0045	0.8531							
8/3/2011	16:30	19727	191.00	6,885.0	92	1.4	9.3	11	799	505	54,000	3	57		0.0003	0.0535	31.3673	54		0.0004	0.0803	11.0258	5.0		0.0000	0.0064	0.8595							
8/10/2011	9:30	19874	147.00	7,032.0	80	1.6	11.3	7	785	601	58,800	3	57		0.0003	0.0490	31.4163	54		0.0005	0.0735	11.0993	5.0		0.0000	0.0058	0.8653							
8/18/2011	12:15	20064	190.00	7,222.0	92	1.5	9.5	11	817	530	52,400	3	57		0.0003	0.0558	31.4721	54		0.0004	0.0837	11.1831	5.0		0.0000	0.0067	0.8720							
8/24/2011	8:30	20202	138.00	7,360.0	83	NA	9.8	10	975	649	47,100	3	57		0.0004	0.0497	31.5218	54		0.0005	0.0745	11.2576	5.0		0.0000	0.0059	0.8779							
	11:00	20205	2.50	7,362.5	90	NA	9.3	11	1008	637	53,200	3	28		0.0002	0.0004	31.5222	77		0.0008	0.0019	11.2595	2.3		0.0000	0.0000	0.8779							
8/31/2011	10:40	20368	163.50	7,526.0	91	1.2	9.8	10	962	640	50,100	3	28		0.0002	0.0285	31.5507	77		0.0008	0.1242	11.3836	2.3		0.0000	0.0032	0.8811							
9/8/2011	7:30	20554	186.00	7,712.0	79	3.9	10.0	10	1300	887	53,500	3	28	e	0.0002	0.0451	31.5958	77	e	0.0011	0.1963	11.5799	2.3	e	0.0000	0.0050	0.8862							
	11:30	20558	4.00	7,716.0	95.2	4.2	7.8	14	1505	801	163,000		86	e	0.0007	0.0027	31.5985	236	e	0.0019	0.0077	11.5876	7.0	e	0.0000	0.0002	0.8864							
9/13/2011	9:00	20673	115.00	7,831.0	81.2	3.7	8.8	12	1349	808	79,000		22		0.0002	0.0199	31.6183	66		0.0008	0.0944	11.6821	2.6		0.0000	0.0032	0.8896							
10/6/2011	12:45	20677	4.00	7,835.0	85	2	10.8	8	893	655	76,000	3	22		0.0001	0.0006	31.6189	66		0.0007	0.0027	11.6847	2.6		0.0000	0.0001	0.8896							
10/14/2011	9:20	20720	43.00	7,878.0	92.5	2.15	9.8	10	965	643	555,000	3,6	22		0.0001	0.0059	31.6248	66		0.0007	0.0281	11.7128	2.6		0.0000	0.0009	0.8906							
10/20/2011	10:00	20814	94.00	7,972.0	69.8	2.1	10.8	8	928	680	708,000		41		0.0003	0.0255	31.6503	80		0.0008	0.0788	11.7916	1.3	m	0.0000	0.0011	0.8916							
10/27/2011	11:00	20876	62.00	8,034.0	68.4	2.2	10.0	9.5	986	673	735,000	3	41		0.0003	0.0166	31.6670	80		0.0008	0.0514	11.8430	1.3	m	0.0000	0.0007	0.8923							
11/3/2011	14:00	20922	46.00	8,080.0	76.5	2.15	10.0	9.5	967	660	642,900	3	41		0.0003	0.0121	31.6791	80		0.0008	0.0374	11.8804	1.3	m	0.0000	0.0005	0.8928							
11/10/2011	10:30	20951	29.00	8,109.0	64.6	2.2	10.8	8	955	700	1,136,000	3	41		0.0003	0.0081	31.6872	80		0.0009	0.0250	11.9054	1.3	m	0.0000	0.0003	0.8932							
11/17/2011	8:30	20989	38.00	8,147.0	66.8	2.25	10.3	9	987	690	781,910		23		0.0002	0.0059	31.6931	60		0.0006	0.0243	11.9297	2.5	m	0.0000	0.0009	0.8940							
11/29/2011	9:45	21024	35.00	8,182.0	66.2	2.3	10.3	9	998	698	715,080	3	23		0.0002	0.0055	31.6986	60		0.0006	0.0226	11.9524	2.5	m	0.0000	0.0008	0.8948							
12/7/2011	7:30	21062	38.00	8,220.0	53.6	2.2	11.3	7	944	723	828,000	3	23		0.0002	0.0062	31.7048	60		0.0007	0.0255	11.9778	2.5	m	0.0000	0.0009	0.8958							
12/13/2011	12:00	21086	24.00	8,244.0	40.1	2.1	11.3	7	935	716	996,000	3	23		0.0002	0.0039	31.7087	60		0.0007	0.0159	11.9938	2.5	m	0.0000	0.0006	0.8963							
12/20/2011	12:45	21106	20.00	8,264.0	60.1	2.2	11.0	7.5	948	711	883,000		84		0.0006	0.0116	31.7203	120		0.0013	0.0263	12.0200	25.0	m	0.0002	0.0047	0.9010							
12/27/2011	13:45	21132	26.00	8,290.0	66.4	2.1	11.0	7.5	921	690	912,000	3	84		0.0006	0.0147	31.7349	120		0.0013	0.0332	12.0532	25.0	m	0.0002	0.0059	0.9069							
1/3/2012	16:00	21159	27.00	8,317.0	66.4	2.1	11.0	7.5	921	690	914,000	3	84		0.0006	0.0152	31.7502	120		0.0013	0.0344	12.0876	25.0	m	0.0002	0.0062	0.9131							
1/10/2012	14:00	21198	39.00	8,356.0	61.3	2.1	11.3	7	915	701	981,000	3	84		0.0006	0.0223	31.7725	120		0.0013	0.0505	12.1382	25.0	m	0.0002	0.0090	0.9221							
1/17/2012	6:30</																																	

Table 2
 Summary of Mass Removal Data
 Former Lubrication Company of America Site
 12500 Lang Station Road
 Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride						1,1-Dichloroethane				Methylene Chloride															
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)											
1/27/2012	10:00	21251	21.00	8,409.0	67.3	2	11.5	6.5	879	688	914,000	3	25	m	0.0002	0.0035	31.7816	88		0.0009	0.0196	12.1888	25.0	m	0.0002	0.0048	0.9345											
1/31/2012	14:00	21348	97.00	8,506.0	74.2	1.8	10.3	9	876	613	938,000	3	25	m	0.0001	0.0145	31.7960	88		0.0008	0.0805	12.2694	25.0	m	0.0002	0.0196	0.9541											
2/7/2012	10:00	21382	34.00	8,540.0	70.3	2	10.8	8	906	664	873,000	3	25.0	m	0.0002	0.0055	31.8015	88		0.0009	0.0306	12.3000	25.0	m	0.0002	0.0075	0.9616											
2/14/2012	13:30	21411	29.00	8,569.0	63.2	2.4	11.3	7	977	748	855,000		50.0	m	0.0004	0.0106	31.8121	50.0	m	0.0006	0.0167	12.3167	50.0	m	0.0005	0.0143	0.9759											
2/21/2012	14:00	21442	31.00	8,600.0	70.1	2.4	11.5	6.5	960	751	923,000	3	50.0	m	0.0004	0.0113	31.8234	50.0	m	0.0006	0.0179	12.3346	50.0	m	0.0005	0.0154	0.9913											
2/28/2012	12:00	21502	60.00	8,660.0	71.3	2.4	11.3	7	969	743	1,004,000	3	50.0	m	0.0004	0.0217	31.8451	50.0	m	0.0006	0.0343	12.3689	50.0	m	0.0005	0.0294	1.0208											
3/6/2012	11:00	21536	34.00	8,694.0	68.6	2.3	11.3	7	951	729	851,000	3	50.0	m	0.0004	0.0121	31.8571	50.0	m	0.0006	0.0191	12.3880	50.0	m	0.0005	0.0164	1.0371											
3/13/2012	13:00	21565	29.00	8,723.0	67.6	2.2	11.3	7	931	713	921,000	3	50.0	m	0.0003	0.0101	31.8672	50.0	m	0.0005	0.0159	12.4039	50.0	m	0.0005	0.0137	1.0508											
3/20/2012	13:00	21609	44.00	8,767.0	63.6	2.3	11.0	7.5	966	724	903,000		25.0	m	0.0002	0.0077	31.8749	25.0	m	0.0003	0.0123	12.4162	25.0	m	0.0002	0.0105	1.0613											
3/27/2012	14:00	21644	35.00	8,802.0	66.6	2.2	11.3	7	932	714	922,000	3	25.0	m	0.0002	0.0061	31.8810	25.0	m	0.0003	0.0096	12.4258	25.0	m	0.0002	0.0083	1.0696											
4/3/2012	14:45	21699	55.00	8,857.0	65.4	2.2	11.5	6.5	923	723	976,000	3	25.0	m	0.0002	0.0097	31.8907	25.0	m	0.0003	0.0153	12.4411	25.0	m	0.0002	0.0131	1.0827											
4/10/2012	18:00	21755	56.00	8,913.0	66.4	2.1	11.3	7	911	698	883,000	3	25.0	m	0.0002	0.0095	31.9002	25.0	m	0.0003	0.0150	12.4562	25.0	m	0.0002	0.0129	1.0957											
4/17/2012	15:30	21788	33.00	8,946.0	71.6	2.1	11.3	7	906	694	971,000		50.0	m	0.0003	0.0111	31.9113	50.0	m	0.0005	0.0176	12.4738	50.0	m	0.0005	0.0151	1.1108											
4/24/2012	13:00	21873	85.00	9,031.0	71.9	2.1	11.3	7	906	694	876,000	3	50.0	m	0.0003	0.0287	31.9400	50.0	m	0.0005	0.0454	12.5193	50.0	m	0.0005	0.0390	1.1498											
5/1/2012	15:00	21925	52.00	9,083.0	79.2	2.1	11.0	7.5	910	682	996,000	3	50.0	m	0.0003	0.0172	31.9573	50.0	m	0.0005	0.0273	12.5466	50.0	m	0.0005	0.0234	1.1732											
5/8/2012	13:30	21990	65.00	9,148.0	77.3	2	9.8	10	944	628	1,104,000	3	50.0	m	0.0003	0.0199	31.9771	50.0	m	0.0005	0.0315	12.5780	50.0	m	0.0004	0.0270	1.2002											
5/15/2012	13:30	22097	107.00	9,255.0	76.4	2.1	10.3	9	945	660	999,000	3	50.0	m	0.0003	0.0344	32.0115	50.0	m	0.0005	0.0544	12.6324	50.0	m	0.0004	0.0467	1.2469											
5/22/2012	12:30	22176	79.00	9,334.0	93.1	2.3	9.3	11	1024	647	1,777,700	3	60.0	m	0.0004	0.0298	32.0414	60.0	m	0.0006	0.0473	12.6797	60.0	m	0.0005	0.0406	1.2875											
	16:00	22180	3.50	9,337.5	86.4	2.4	8.3	13	1113	629	2,947,200		99	e	0.0006	0.0021	32.0435	99	e	0.0010	0.0034	12.6831	99	e	0.0008	0.0029	1.2904											
5/29/2012	13:00	22230	50.50	9,388.0	82.1	1.1	9.8	10	697	464	374,000	3	13	e	0.0003	0.0128	32.0563	13	e	0.0004	0.0202	12.7033	13	e	0.0003	0.0174	1.3077											
	17:30	22235	4.50	9,392.5	84	2.3	9.3	11	1032	653	2,693,000		91	e	0.0006	0.0026	32.0589	91	e	0.0009	0.0041	12.7074	91	e	0.0008	0.0035	1.3113											
6/5/2012	13:00	22317	82.50	9,475.0	76.8	1.1	9.8	10	700	466	521,000	3	18	e	0.0002	0.0203	32.0792	18	e	0.0004	0.0321	12.7395	18	e	0.0003	0.0276	1.3388											
6/11/2012	12:30	22361	44.00	9,519.0	76.3	1.1	10.3	9	684	478	613,000	3	21	e	0.0001	0.0039	32.0831	21	e	0.0001	0.0062	12.7457	21	e	0.0001	0.0053	1.3442											
6/19/2012	15:00	22451	90.00	9,609.0	73.8	1.1	10.0	9.5	694	473	673,000	3	23	e	0.0001	0.0090	32.0921	23	e	0.0002	0.0142	12.7600	23	e	0.0001	0.0122	1.3564											
6/26/2012	9:00	Carbon Change Out																																				
	12:30	22526	75.00	9,684.0	95.8	1.9	8.8	12	954	571	918,000	3	125	m	0.0007	0.0521	32.1441	125	m	0.0011	0.0825	12.8425	125	m	0.0009	0.0708	1.4272											
																	Vinyl Chloride Removed			32.1441			1,1-Dichloroethane Removed				12.8425				Methylene Chloride Removed				1.4272			

Table 2
Summary of Mass Removal Data
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Date	Time	Benzene					Tetrachloroethylene					Trichloroethylene					1,2-Dichloroethane					C ₂ through C ₆₊					
		Influent Lab Concentration (ppbv)*	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)*	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)*	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)*	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)*	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	
5/12/06	6:30																										
	12:30	710		0.0050	0.0298	0.0298	100		0.0015	0.0089	0.0089	480		0.0056	0.0339	0.0339	31		0.0003	0.0016	0.0016						
5/22/06	8:30																										
	9:30	1.25	m	0.0000	0.0000	0.0298	1.25	m	0.0000	0.0000	0.0089	1.25	m	0.0000	0.0000	0.0339	1.25	m	0.0000	0.0000	0.0017						
6/14/06	12:00																										
	8:35																										
	10:30	115	m	0.0004	0.0008	0.0306	115	m	0.0009	0.0017	0.0106	115	m	0.0007	0.0014	0.0352	115	m	0.0005	0.0010	0.0027						
7/6/06	11:50																										
	8:15																										
	12:30	56		0.0003	0.0012	0.0318	42		0.0005	0.0020	0.0126	190		0.0017	0.0070	0.0422	3		0.0000	0.0001	0.0028						
2/12/07	13:00																										
	9:30																										
	10:30	660		0.0070	0.0070	0.0388	84		0.0019	0.0019	0.0145	810		0.0144	0.0144	0.0567	24.5	m	0.0003	0.0003	0.0031	500350	m+	5.8452	5.8452	5.8452	
2/23/2007	12:00	660		0.0066	0.0100	0.0488	84		0.0018	0.0027	0.0172	810		0.0137	0.0205	0.0772	24.5	m	0.0003	0.0005	0.0035	500350	m+	5.5499	8.3249	14.1701	
	8:30																										
	9:30	660	e	0.0066	0.0066	0.0554	84.0	e	0.0018	0.0018	0.0190	810.0	e	0.0137	0.0137	0.0909	24.5	e	0.0003	0.0003	0.0039	500350	e	5.5365	5.5365	19.7066	
	10:45	644	e	0.0068	0.0085	0.0639	81.9	e	0.0018	0.0023	0.0213	790.1	e	0.0141	0.0176	0.1085	23.9	e	0.0003	0.0004	0.0043	488046	e	5.7015	7.1268	26.8334	
	14:30	255	e	0.0024	0.0091	0.0730	32.5	e	0.0007	0.0025	0.0237	313.0	e	0.0050	0.0188	0.1273	9.5	e	0.0001	0.0004	0.0047	193373	e	2.0334	7.6252	34.4586	
	14:50	234	e	0.0022	0.0007	0.0738	29.8	e	0.0006	0.0002	0.0239	287.2	e	0.0046	0.0015	0.1288	8.7	e	0.0001	0.0000	0.0047	177378	e	1.8652	0.6155	35.0741	
	15:45	152	e	0.0014	0.0013	0.0751	19.3	e	0.0004	0.0004	0.0243	186.6	e	0.0030	0.0027	0.1316	5.6	e	0.0001	0.0001	0.0048	115245	e	1.2010	1.1049	36.1790	
	2/26/2007	8:00	219	e	0.0017	0.1082	0.1833	27.9	e	0.0005	0.0292	0.0535	269.2	e	0.0035	0.2234	0.3549	8.1	e	0.0001	0.0051	0.0099	166305	e	1.4085	90.4990	126.6781
2/28/2007	13:00	187	e	0.0016	0.0081	0.1914	23.8	e	0.0004	0.0022	0.0557	229.4	e	0.0034	0.0168	0.3717	6.9	e	0.0001	0.0004	0.0103	141697	e	1.3627	6.8133	133.4914	
	13:30	207	e	0.0018	0.0009	0.1923	26.4	e	0.0005	0.0002	0.0560	254.3	e	0.0037	0.0019	0.3736	7.7	e	0.0001	0.0000	0.0103	157077	e	1.5106	0.7553	134.2467	
	14:40																										
3/1/2007	9:40																										
	10:00	198	e	0.0017	0.0006	0.1929	25.2	e	0.0005	0.0002	0.0561	243.0	e	0.0036	0.0012	0.3748	7.4	e	0.0001	0.0000	0.0103	150105	e	1.4576	0.4858	134.7325	
	12:15	176	e	0.0016	0.0035	0.1964	22.4	e	0.0004	0.0009	0.0571	216.4	e	0.0032	0.0072	0.3820	6.5	e	0.0001	0.0002	0.0105	133700	e	1.2983	2.9212	137.6537	
	14:00	5	e	0.0000	0.0001	0.1965	0.7	e	0.0000	0.0000	0.0571	6.6	e	0.0001	0.0002	0.3822	0.2	e	0.0000	0.0000	0.0105	4101	e	0.0359	0.0629	137.7165	
3/29/2007	15:00	173	e	0.0015	0.0015	0.1980	22.0	e	0.0004	0.0004	0.0575	212.5	e	0.0032	0.0032	0.3854	6.4	e	0.0001	0.0001	0.0106	131239	e	1.2938	1.2938	139.0103	
	8:15	110		0.0010	0.0168	0.2149	75.0		0.0014	0.0244	0.0819	1100.0		0.0164	0.2833	0.6686	3.1	m	0.0000	0.0006	0.0112	43340	m+	0.4243	7.3200	146.3303	
4/2/2007	10:55																										
	9:10																										
4/3/2007	8:15	5	e	0.0000	0.0041	0.2189	3.5	e	0.0001	0.0059	0.0877	51.1	e	0.0007	0.0683	0.7369	0.1	e	0.0000	0.0001	0.0113	2014	e	0.0186	1.7649	148.0952	
	10:30	0	e	0.0000	0.0000	0.2189	0.0	e	0.0000	0.0000	0.0877	0.0	e	0.0000	0.0000	0.7369	0.0	e	0.0000	0.0000	0.0113	0	e	0.0000	0.0000	148.0952	
4/6/2007	11:35	3	e	0.0000	0.0003	0.2192	1.8	e	0.0000	0.0004	0.0882	26.3	e	0.0002	0.0051	0.7421	0.1	e	0.0000	0.0000	0.0113	1036	e	0.0053	0.1330	148.2282	
	13:00	0	e	0.0000	0.0000	0.2192	0.0	e	0.0000	0.0000	0.0882	0.0	e	0.0000	0.0000	0.7421	0.0	e	0.0000	0.0000	0.0113	0	e	0.0000	0.0000	148.2282	
4/9/2007	7:20	2	e	0.0000	0.0005	0.2198	1.2	e	0.0000	0.0008	0.0890	17.5	e	0.0001	0.0092	0.7513	0.0	e	0.0000	0.0000	0.0113	691	e	0.0036	0.2372	148.4654	
	8:20	1	e	0.0000	0.0000	0.2198	0.7	e	0.0000	0.0000	0.0890	10.2	e	0.0002	0.0002	0.7514	0.0	e	0.0000	0.0000	0.0113	403	e	0.0042	0.0042	148.4695	
	9:40	0	e	0.0000	0.0000	0.2198	0.0	e	0.0000	0.0000	0.0890	0.0	e	0.0000	0.0000	0.7514	0.0	e	0.0000	0.0000	0.0113	0	e	0.0000	0.0000	148.4695	
	11:00	1	e	0.0000	0.0000	0.2198	0.7	e	0.0000	0.0000	0.0890	10.2	e	0.0002	0.0002	0.7516	0.0	e	0.0000	0.0000	0.0113	403	e	0.0041	0.0055	148.4751	
4/9/2007	7:50	2	e	0.0000	0.0010	0.2207	1.3	e	0.0000	0.0014	0.0904	19.0	e	0.0002	0.0160	0.7677	0.1	e	0.0000	0.0000	0.0114	748	e	0.0060	0.4139	148.8890	
	9:15	0	e	0.0000	0.0000	0.2207	0.2	e	0.0000	0.0000	0.0904	2.9	e	0.0000	0.0001	0.7677	0.0	e	0.0000	0.0000	0.0114	115	e	0.0012	0.0017	148.8907	
	11:05	0	e	0.0000	0.0000	0.2207	0.2	e	0.0000	0.0000	0.0904	2.9	e	0.0000	0.0001	0.7678	0.0	e	0.0000	0.0000	0.0114	115	e	0.0011	0.0021	148.8928	
	14:15	9	e	0.0001	0.0003	0.2210	6.5	e	0.0001	0.0004	0.0908	95.0	e	0.0014	0.0045	0.7723	0.3	e	0.0000	0.0000	0.0114	3741	e	0.0364	0.1152	149.0080	
	15:40	9	e	0.0001	0.0001	0.2211	6.3	e	0.0001	0.0002	0.0909	92.0	e	0.0014	0.0019	0.7742	0.3	e	0.0000	0.0000	0.0114	3626	e	0.0353	0.0500	149.0579	
16:45	5	e	0.0000	0.0001	0.2212	3.6	e	0.0001	0.0001	0.0910	52.6	e	0.0008	0.0009	0.7751	0.1	e	0.0000	0.0000	0.0114	2072	e	0.0205	0.0222	149.0801		

Table 2
Summary of Mass Removal Data
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Date	Time	Benzene					Tetrachloroethylene					Trichloroethylene					1,2-Dichloroethane					C ₂ through C ₆₊				
		Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)
4/11/2007	7:45	14	e	0.0001	0.0034	0.2246	9.4	e	0.0001	0.0049	0.0960	137.3	e	0.0015	0.0573	0.8324	0.4	e	0.0000	0.0001	0.0115	5410	e	0.0380	1.4814	150.5615
	9:45	8	e	0.0001	0.0002	0.2247	5.7	e	0.0001	0.0002	0.0962	83.3	e	0.0013	0.0025	0.8349	0.2	e	0.0000	0.0000	0.0115	3281	e	0.0328	0.0657	150.6272
	11:15	14		0.0001	0.0002	0.2249	15.0		0.0003	0.0004	0.0966	140.0		0.0021	0.0032	0.8381	0.7	m	0.0000	0.0000	0.0115	7840	m+	0.0784	0.1177	150.7448
4/13/2007	7:40	14		0.0001	0.0057	0.2306	15.0		0.0003	0.0130	0.1096	140.0		0.0022	0.0959	0.9340	0.7	m	0.0000	0.0004	0.0119	7840	m+	0.0793	3.5216	154.2664
	9:15	14		0.0001	0.0002	0.2308	15.0		0.0003	0.0005	0.1100	140.0		0.0021	0.0034	0.9374	0.7	m	0.0000	0.0000	0.0119	7840	m+	0.0787	0.1245	154.3910
	10:30	14		0.0001	0.0002	0.2310	15.0		0.0003	0.0004	0.1104	140.0		0.0021	0.0027	0.9401	0.7	m	0.0000	0.0000	0.0119	7840	m+	0.0783	0.0979	154.4889
4/16/2007	7:40	14		0.0001	0.0089	0.2399	15.0		0.0003	0.0202	0.1306	140.0		0.0022	0.1497	1.0898	0.7	m	0.0000	0.0006	0.0125	7840	m+	0.0795	5.4985	159.9874
	9:20	14		0.0001	0.0002	0.2401	15.0		0.0003	0.0005	0.1311	140.0		0.0021	0.0036	1.0933	0.7	m	0.0000	0.0000	0.0125	7840	m+	0.0788	0.1313	160.1187
	10:50	14		0.0001	0.0002	0.2403	15.0		0.0003	0.0004	0.1315	140.0		0.0021	0.0032	1.0965	0.7	m	0.0000	0.0000	0.0125	7840	m+	0.0782	0.1174	160.2360
4/19/2007	15:20	18	e	0.0001	0.0110	0.2513	19.4	e	0.0003	0.0250	0.1566	181.4	e	0.0024	0.1850	1.2816	0.9	e	0.0000	0.0007	0.0132	10156	e	0.0888	6.7952	167.0312
	17:00	19	e	0.0002	0.0003	0.2516	20.8	e	0.0004	0.0007	0.1572	194.1	e	0.0029	0.0049	1.2865	1.0	e	0.0000	0.0000	0.0132	10869	e	0.1079	0.1798	167.2110
4/21/2007	11:00																									
4/24/2007	8:30																									
	14:25	13	e	0.0001	0.0070	0.2586	14.3	e	0.0003	0.0160	0.1732	133.6	e	0.0025	0.1182	1.4046	0.7	e	0.0000	0.0004	0.0137	7484	e	0.0906	4.3405	171.5516
	17:00	13	e	0.0001	0.0003	0.2589	13.6	e	0.0003	0.0007	0.1739	127.3	e	0.0019	0.0049	1.4095	0.6	e	0.0000	0.0000	0.0137	7127	e	0.0697	0.1800	171.7316
4/26/2007	14:00	24	e	0.0002	0.0074	0.2663	25.9	e	0.0004	0.0168	0.1906	241.8	e	0.0028	0.1240	1.5336	1.2	e	0.0000	0.0005	0.0142	13542	e	0.1010	4.5556	176.2871
	15:40	23		0.0002	0.0003	0.2666	21.0		0.0004	0.0006	0.1913	240.0		0.0036	0.0057	1.5392	5.0	m	0.0001	0.0001	0.0142	11330	m+	0.1108	0.1754	176.4625
4/28/2007	10:30																									
5/1/2007	6:00																									
	8:10	23		0.0002	0.0090	0.2756	21.0		0.0004	0.0175	0.2088	240.0		0.0035	0.1584	1.6976	5.0	m	0.0001	0.0025	0.0167	11330	m+	0.1090	4.9031	181.3656
	9:45	23		0.0002	0.0003	0.2759	21.0		0.0004	0.0005	0.2093	240.0		0.0035	0.0049	1.7025	5.0	m	0.0001	0.0001	0.0168	11330	m+	0.1073	0.1520	181.5176
5/4/2007	10:50	23		0.0002	0.0002	0.2761	21.0		0.0004	0.0005	0.2098	240.0		0.0034	0.0043	1.7068	5.0	m	0.0001	0.0001	0.0168	11330	m+	0.1067	0.1333	181.6509
	9:45	37	e	0.0003	0.0185	0.2946	33.4	e	0.0005	0.0358	0.2456	381.2	e	0.0046	0.3243	2.0311	7.9	e	0.0001	0.0050	0.0219	17995	e	0.1416	10.0413	191.6923
	10:45	28	e	0.0002	0.0002	0.2949	25.1	e	0.0005	0.0005	0.2461	287.1	e	0.0042	0.0042	2.0353	5.9	e	0.0001	0.0001	0.0219	13552	e	0.1309	0.1309	191.8231
	12:30	21	e	0.0002	0.0003	0.2952	18.9	e	0.0003	0.0006	0.2467	216.5	e	0.0031	0.0055	2.0408	4.5	e	0.0000	0.0001	0.0220	10219	e	0.0966	0.1691	191.9923
	13:40	27	e	0.0002	0.0003	0.2954	24.3	e	0.0004	0.0005	0.2472	277.6	e	0.0040	0.0047	2.0455	5.7	e	0.0001	0.0001	0.0221	13107	e	0.1238	0.1444	192.1366
5/7/2007	14:45	22	e	0.0002	0.0002	0.2956	20.2	e	0.0004	0.0004	0.2476	230.6	e	0.0033	0.0036	2.0491	4.8	e	0.0001	0.0001	0.0222	10886	e	0.1028	0.1113	192.2480
	9:35	45	e	0.0003	0.0191	0.3147	40.8	e	0.0006	0.0370	0.2846	465.9	e	0.0050	0.3351	2.3841	9.6	e	0.0001	0.0052	0.0274	21994	e	0.1552	10.3744	202.6224
	11:00	26	e	0.0002	0.0003	0.3150	23.9	e	0.0004	0.0006	0.2852	272.9	e	0.0039	0.0055	2.3897	5.6	e	0.0001	0.0001	0.0274	12885	e	0.1217	0.1715	202.7939
5/10/2007	13:45	34	e	0.0003	0.0008	0.3158	30.9	e	0.0006	0.0015	0.2867	352.9	e	0.0050	0.0139	2.4035	7.3	e	0.0001	0.0002	0.0277	16662	e	0.1562	0.4296	203.2235
	10:45	65	e	0.0004	0.0291	0.3449	59.7	e	0.0008	0.0564	0.3431	682.4	e	0.0074	0.5106	2.9141	14.1	e	0.0001	0.0079	0.0356	32213	e	0.2291	15.8083	219.0318
	11:45	72	e	0.0006	0.0006	0.3455	65.5	e	0.0012	0.0012	0.3443	748.2	e	0.0107	0.0107	2.9248	15.4	e	0.0002	0.0002	0.0358	35323	e	0.3312	0.3312	219.3630
	13:15	30		0.0003	0.0004	0.3459	29.0		0.0005	0.0008	0.3451	320.0		0.0046	0.0068	2.9317	3.6	m	0.0000	0.0001	0.0358	15660	m+	0.1464	0.2196	219.5826
	15:00																									
5/18/2007	15:05																									
	9:15	28	e	0.0002	0.0461	0.3920	27.0	e	0.0005	0.0946	0.4396	297.6	e	0.0044	0.8269	3.7585	3.3	e	0.0000	0.0069	0.0427	14565	e	0.1412	26.5389	246.1215
	10:40	27	e	0.0002	0.0003	0.3923	26.2	e	0.0005	0.0007	0.4403	288.7	e	0.0042	0.0060	3.7645	3.2	e	0.0000	0.0000	0.0428	14127	e	0.1351	0.1914	246.3129
	13:45	26	e	0.0002	0.0007	0.3930	24.7	e	0.0005	0.0014	0.4417	273.0	e	0.0040	0.0122	3.7767	3.0	e	0.0000	0.0001	0.0429	13360	e	0.1269	0.3912	246.7041
5/24/2007	14:45	17	e	0.0001	0.0001	0.3931	16.0	e	0.0003	0.0003	0.4420	176.8	e	0.0026	0.0026	3.7793	2.0	e	0.0000	0.0000	0.0429	8651	e	0.0837	0.0837	246.7878
	12:00	26	e	0.0002	0.0260	0.4192	25.3	e	0.0004	0.0534	0.4954	279.7	e	0.0033	0.4670	4.2463	3.1	e	0.0000	0.0039	0.0468	13689	e	0.1057	14.9895	261.7772
	13:00	26	e	0.0002	0.0002	0.4194	25.6	e	0.0005	0.0005	0.4959	282.0	e	0.0041	0.0041	4.2504	3.1	e	0.0000	0.0000	0.0468	13798	e	0.1306	0.1306	261.9079
	15:05	25	e	0.0002	0.0005	0.4199	24.1	e	0.0004	0.0009	0.4968	266.3	e	0.0039	0.0082	4.2586	3.0	e	0.0000	0.0001	0.0469	13032	e	0.1262	0.2629	262.1708
5/30/2007	16:05	31		0.0003	0.0003	0.4201	32.0		0.0006	0.0006	0.4974	340.0		0.0050	0.0050	4.2636	3.6	m	0.0000	0.0000	0.0469	25080	m+	0.2429	0.2429	262.4136
	9:15	31		0.0003	0.0378	0.4579	32.0		0.0006	0.0828	0.5802	340.0		0.0051	0.6972	4.9607	3.6	m	0.0000	0.0055	0.0524	25080	m+	0.2459	33.7288	296.1424
	10:30	31		0.0003	0.0003	0.4583	32.0		0.0006	0.0008	0.5810	340.0		0.0051	0.0063	4.9671	3.6	m	0.0000							

Table 2
 Summary of Mass Removal Data
 Former Lubrication Company of America Site
 12500 Lang Station Road
 Canyon Country, California
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Date	Time	Benzene				Tetrachloroethylene				Trichloroethylene				1,2-Dichloroethane				C ₂ through C ₆ +								
		Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)
11/5/2007	8:54																									
	10:05	7	e	0.0000	0.0000	0.6897	10.9	e	0.0001	0.0002	1.0886	83.2	e	0.0008	0.0010	9.2384	1.1	e	0.0000	0.0000	0.0861	6021	e	0.0397	0.0470	503.0876
	14:35	9	e	0.0001	0.0003	0.6900	14.7	e	0.0002	0.0009	1.0895	111.4	e	0.0012	0.0055	9.2439	1.4	e	0.0000	0.0001	0.0861	8063	e	0.0579	0.2604	503.3479
11/6/2007	8:20	16	e	0.0001	0.0015	0.6915	25.5	e	0.0003	0.0049	1.0945	193.7	e	0.0017	0.0298	9.2737	2.5	e	0.0000	0.0003	0.0864	14017	e	0.0797	1.4140	504.7620
	12:00	12	e	0.0001	0.0003	0.6918	18.0	e	0.0003	0.0009	1.0954	136.9	e	0.0015	0.0056	9.2793	1.8	e	0.0000	0.0001	0.0865	9905	e	0.0728	0.2670	505.0289
	12:45																									
	13:05																									
	14:15	1000		0.0065	0.0125	0.7043	75.0	m	0.0010	0.0020	1.0974	260.0		0.0029	0.0055	9.2848	125.0	m	0.0010	0.0020	0.0885	1242300	m+	8.9476	17.1497	522.1786
11/8/2007	9:00	1000		0.0068	0.2921	0.9964	75.0	m	0.0011	0.0465	1.1439	260.0		0.0030	0.1277	9.4125	125.0	m	0.0011	0.0463	0.1347	1242300	m+	9.3642	400.3190	922.4976
	10:30																									
	11:00																									
	13:00	1313	e	0.0092	0.0320	1.0284	98.5	e	0.0015	0	1.1490	341.3	e	0.0040	0.0140	9.4266	164.1	e	0.0015	0.0051	0.1398	1630853	e	12.5510	43.9285	966.4261
	14:30	1621	e	0.0099	0.0149	1.0433	121.6	e	0.0016	0	1.1514	421.5	e	0.0043	0.0065	9.4331	202.7	e	0.0016	0.0024	0.1421	2014059	e	13.5821	20.3731	986.7992
11/12/2007	16:40	2439	e	0.0126	0.0272	1.0705	182.9	e	0.0020	0	1.1557	634.1	e	0.0055	0.0119	9.4450	304.9	e	0.0020	0.0043	0.1465	3030000	e	17.2312	37.3349	1024.1341
	10:30																									
	13:10																									
	13:30	2095	e	0.0128	1.1579	2.2284	157.1	e	0.0020	0	1.3401	544.6	e	0.0056	0.5064	9.9514	261.8	e	0.0020	0.1834	0.3298	2602235	e	17.6013	1587.0484	2611.1825
	15:20	53	e	0.0004	0.0007	2.2291	4.0	e	0.0001	0	1.3402	13.8	e	0.0002	0.0003	9.9517	6.6	e	0.0001	0.0001	0.3299	65947	e	0.5307	0.9728	2612.1553
11/13/2007	10:45																									
	11:15																									
	11:40	3	e	0.0001	0.0026	2.2317	0.2	e	0.0000	0	1.3406	0.7	e	0.0001	0.0011	9.9529	0.4	e	0.0000	0.0004	0.3303	3565	e	0.1813	3.5964	2615.7517
	13:45	2023	e	0.0106	0.0221	2.2538	151.7	e	0.0017	0	1.3441	526.0	e	0.0046	0.0097	9.9625	252.9	e	0.0017	0.0035	0.3338	2513118	e	14.5277	30.2656	2646.0173
11/15/2007	15:15	2640	e	0.0144	0.0216	2.2754	198.0	e	0.0023	0	1.3476	686.4	e	0.0063	0.0095	9.9720	330.0	e	0.0023	0.0034	0.3373	3279529	e	19.7450	29.6174	2675.6348
	9:30	1923	e	0.0129	0.5471	2.8225	144.2	e	0.0021	0	1.4347	499.9	e	0.0057	0.2393	10.2113	240.3	e	0.0021	0.0866	0.4239	2388353	e	17.7480	749.8542	3425.4890
	15:15	2123	e	0.0146	0.0938	2.9163	159.3	e	0.0023	0	1.4496	552.1	e	0.0064	0.0410	10.2523	265.4	e	0.0023	0.0149	0.4388	2637882	e	20.0348	128.5569	3554.0459
11/16/2007	7:15	3659	e	0.0212	0.3350	3.2513	274.4	e	0.0034	0	1.5030	951.2	e	0.0093	0.1465	10.3988	457.3	e	0.0034	0.0531	0.4918	4545000	e	29.0045	459.2289	4013.2748
	9:10	1650	e	0.0153	0.0229	3.2742	123.7	e	0.0024	0	1.5066	429.0	e	0.0067	0.0100	10.4089	206.2	e	0.0024	0.0036	0.4954	2049706	e	20.9392	31.4088	4044.6837
	10:15																									
12/6/2007	12:30																									
	13:15	2956	e	0.0283	0.0496	3.3238	221.7	e	0.0045	0	1.5145	768.4	e	0.0124	0.0217	10.4305	369.4	e	0.0045	0.0079	0.5033	3671647	e	38.8394	67.9690	4112.6527
	14:15	890		0.0085	0.0085	3.3323	99.0	e	0.0020	0	1.5165	420.0	e	0.0068	0.0068	10.4373	35.5	m	0.0004	0.0004	0.5037	857300	m+	9.0513	9.0513	4121.7040
	16:05																									
1/15/2008	8:00																									
	16:22																									
1/16/2008	17:20	748	e	0.0057	0.0057	3.3380	83.2	e	0.0013	0.0013	1.5179	353.0	e	0.0045	0.0045	10.4418	29.8	e	0.0003	0.0003	0.5040	720532	e	6.0223	6.0223	4127.7262
	9:30	828	e	0.0064	0.1038	3.4418	92.1	e	0.0015	0.0245	1.5424	390.6	e	0.0051	0.0824	10.5242	33.0	e	0.0003	0.0052	0.5093	797256	e	6.8235	110.3138	4238.0400
	11:36	340		0.0028	0.0058	3.4476	39.0		0.0007	0.001	1.5438	130.0		0.0018	0.0037	10.5279	31.0	m	0.0003	0.0007	0.5099	423960	m+	3.8120	8.0052	4246.0452
1/21/2008	9:52	340		0.0026	0.3043	3.7519	39.0		0.0006	0.0741	1.6179	130.0		0.0017	0.1957	10.7237	31.0	m	0.0003	0.0352	0.5451	423960	m+	3.5399	418.6494	4664.6947
2/12/2008	11:00	340		0.0026	0.3039	4.0558	39.0		0.0006	0.0740	1.6919	130.0		0.0017	0.1955	10.9191	31.0	m	0.0003	0.0351	0.5802	423960	m+	3.6357	418.1024	5082.7970
	15:15	340		0.0026	0.0126	4.0685	39.0		0.0006	0.003	1.6950	130.0		0.0017	0.0081	10.9273	31.0	m	0.0003	0.0015	0.5817	423960	m+	3.5949	17.3752	5100.1723
2/13/2008	13:33	340		0.0023	0.0177	4.0862	39.0		0.0006	0.0043	1.6993	130.0		0.0015	0.0114	10.9387	31.0	m	0.0003	0.0020	0.5837	423960	m+	3.2124	24.3606	5124.5329
2/19/2008	8:54	250		0.0021	0.1006	4.1867	39.0		0.0007	0.033	1.7326	130.0		0.0018	0.0880	11.0266	10.5	m	0.0001	0.0054	0.5890	319100	m+	2.8903	141.6268	5266.1597
	8:30	250		0.0020	0.2833	4.4701	39.0		0.0007	0.0938	1.8264	130.0		0.0017	0.2479	11.2745	10.5	m	0.0001	0.0151	0.6041	319100	m+	2.7710	399.0283	5665.1880
	11:40	142	e	0.0010	0.0033	4.4734	22.1	e	0.0003	0.0011	1.8275	73.7	e	0.0009	0.0029	11.2774	6.0	e	0.0001	0.0002	0.6043	181002	e	1.4674	4.6468	5669.8348
3/19/2008	12:45	117	e	0.0008	0.0009	4.4743	18.2	e	0.0003	0.0003	1.8278	60.6	e	0.0007	0.0008	11.2782	4.9	e	0.0000	0.0000	0.6043	148824	e	1.1748	1.2727	5671.1075
	7:30	120	e	0.0009	0.0332	4.5075	18.7	e	0.0003	0.0110	1.8388	62.3	e	0.0008	0.0290	11.3072	5.0	e	0.0000	0.0018	0.6061	152846	e	1.2719	46.7409	5717.8484
	10:50	76	e	0.0005	0.0018	4.5093	11.8	e	0.0002	0.0006	1.8394	39.5	e	0.0005	0.0016	11.3088	3.2	e	0.0000	0.0001	0.6062	96937	e	0.7599	2.5329	5720.3813
	14:30	51	e	0.0004	0.0013	4.5106	7.9	e	0.0001	0.0004	1.8399	26.3	e	0.0003	0.0011	11.3099	2.1	e	0.0000	0.0001	0.6063	64490	e	0.4955	1.8168</	

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	Benzene					Tetrachloroethylene					Trichloroethylene					1,2-Dichloroethane					C ₂ through C ₆₊				
		Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)
3/26/2008	9:20	77	e	0.0005	0.0162	4.5267	12.0	e	0.0002	0.0054	1.8452	40.1	e	0.0004	0.0141	11.3240	3.2	e	0.0000	0.0009	0.6071	98412	e	0.6695	22.7632	5744.9612
	10:20	33	e	0.0002	0.0002	4.5270	5.1	e	0.0001	0.0001	1.8453	17.0	e	0.0002	0.0002	11.3243	1.4	e	0.0000	0.0000	0.6072	41698	e	0.3358	0.3358	5745.2970
	11:45	24	e	0.0002	0.0002	4.5272	3.7	e	0.0001	0.0001	1.8454	12.4	e	0.0001	0.0002	11.3245	1.0	e	0.0000	0.0000	0.6072	30435	e	0.2338	0.3312	5745.6282
	13:45	21	e	0.0001	0.0003	4.5275	3.3	e	0.0000	0.0001	1.8455	11.0	e	0.0001	0.0003	11.3247	0.9	e	0.0000	0.0000	0.6072	26949	e	0.2064	0.4128	5746.0410
	14:35	23	e	0.0002	0.0001	4.5276	3.6	e	0.0001	0.0000	1.8455	11.9	e	0.0001	0.0001	11.3248	1.0	e	0.0000	0.0000	0.6072	29228	e	0.2338	0.1948	5746.2358
15:13	22	e	0.0002	0.0001	4.5277	3.5	e	0.0001	0.0000	1.8455	11.7	e	0.0001	0.0001	11.3249	0.9	e	0.0000	0.0000	0.6072	28692	e	0.2298	0.1455	5746.3813	
4/21/2008	12:30	180		0.0013	0.1265	4.6543	70		0.0011	0.1045	1.9500	380		0.0047	0.4493	11.7743	12.5	m	0.0001	0.0111	0.6183	256700	m+	2.0712	199.0741	5945.4554
6/13/2008	9:15	180		0.0012	0.1938	4.8480	70		0.0010	0.1600	2.1100	380		0.0043	0.6881	12.4624	13.0	m	0.0001	0.0174	0.6357	256700	m+	1.9054	304.8681	6250.3236
	11:10	180		0.0012	0.0022	4.8503	70		0.0010	0.0018	2.1118	380		0.0042	0.0080	12.4703	12.5	m	0.0001	0.0002	0.6359	256700	m+	1.8548	3.5241	6253.8477
6/24/2008	8:15	250		0.0018	0.2705	5.1208	110		0.0017	0.2527	2.3645	610		0.0073	1.1103	13.5806	12.5	m	0.0001	0.0171	0.6530	548860	m+	4.2825	655.2250	6909.0727
	9:30	250		0.0018	0.0022	5.1230	110		0.0017	0.0021	2.3666	610		0.0073	0.0091	13.5897	12.5	m	0.0001	0.0001	0.6532	548860	m+	4.2825	5.3531	6914.4258
7/2/2008	8:30	197	e	0.0015	0.0015	5.1245	86.5	e	0.0014	0.0014	2.3680	479.6	e	0.0063	0.0063	13.5961	9.8	e	0.0001	0.0001	0.6533	431494	e	3.7460	3.7460	6918.1718
	12:50	137	e	0.0008	0.0036	5.1282	60.1	e	0.0008	0.0034	2.3714	333.4	e	0.0035	0.0150	13.6110	6.8	e	0.0001	0.0002	0.6535	299974	e	2.0394	8.8368	6927.0086
7/16/2008	7:45	219	e	0.0012	0.1777	5.3058	96.2	e	0.0011	0.1660	2.5374	533.3	e	0.0049	0.7293	14.3403	10.9	e	0.0001	0.0113	0.6648	479821	e	2.8692	430.3784	7357.3870
	11:55	160	e	0.0010	0.0042	5.3100	70.6	e	0.0009	0.0039	2.5413	391.3	e	0.0041	0.0171	14.3574	8.0	e	0.0001	0.0003	0.6650	318150	m+	2.1860	9.1085	7366.4955
	15:00	412	e	0.0025	0.0078	5.3178	181.3	e	0.0024	0.0073	2.5486	1005.2	e	0.0104	0.0320	14.3895	20.6	e	0.0002	0.0005	0.6655	318150	m+	2.1571	6.6510	7373.1465
	16:00	431	e	0.0030	0.0030	5.3208	189.6	e	0.0028	0.0028	2.5514	1051.2	e	0.0122	0.0122	14.4017	21.5	e	0.0002	0.0002	0.6657	854638	e	6.5178	6.5178	7379.6643
	16:30																									
10/21/2008																										
10/27/2008	7:45																									
	8:15	113	e	0.0008	0.0004	5.3212	49.8	e	0.0007	0.0004	2.5517	276.2	e	0.0031	0.0016	14.4032	5.7	e	0.0000	0.0000	0.6657	224576	e	1.6710	0.8355	7380.4998
	9:15	82	e	0.0006	0.0006	5.3217	36.0	e	0.0005	0.0005	2.5522	199.9	e	0.0023	0.0023	14.4056	4.1	e	0.0000	0.0000	0.6658	162506	e	1.2529	1.2529	7381.7527
	11:40	64	e	0.0004	0.0010	5.3228	28.4	e	0.0004	0.0009	2.5532	157.3	e	0.0017	0.0041	14.4097	3.2	e	0.0000	0.0001	0.6658	127884	e	0.9149	2.2111	7383.9638
	13:30	55	e	0.0004	0.0007	5.3234	24.4	e	0.0003	0.0006	2.5538	135.0	e	0.0015	0.0027	14.4124	2.8	e	0.0000	0.0000	0.6659	109793	e	0.7809	1.4316	7385.3954
15:30	58	e	0.0004	0.0007	5.3242	25.5	e	0.0003	0.0007	2.5545	141.2	e	0.0015	0.0031	14.4155	2.9	e	0.0000	0.0000	0.6659	114784	e	0.8165	1.6330	7387.0284	
11/12/2008	7:30	1412	e	0.0050	0.5950	5.9192	621.3	e	0.0047	0.5559	3.1103	3445.2	e	0.0207	2.4425	16.8580	70.6	e	0.0003	0.0377	0.7036	2800968	e	11.0372	1302.3896	8689.4180
	13:00	8	e	0.0001	0.0002	5.9194	3.3	e	0.0000	0.0001	3.1105	18.4	e	0.0002	0.0006	16.8586	0.4	e	0.0000	0.0000	0.7036	14972	e	0.1124	0.3372	8689.7551
	14:00	4	e	0.0000	0.0000	5.9194	1.8	e	0.0000	0.0000	3.1105	10.0	e	0.0001	0.0001	16.8587	0.2	e	0.0000	0.0000	0.7036	8110	e	0.0610	0.0610	8689.8161
	15:55	195	e	0.0017	0.0034	5.9228	85.8	e	0.0016	0.0032	3.1137	475.7	e	0.0070	0.0140	16.8727	9.7	e	0.0001	0.0002	0.7039	386771	e	3.7353	7.4706	8697.2867
11/13/2008	12:25	4	e	0.0000	0.0002	5.9230	1.8	e	0.0000	0.0002	3.1139	10.0	e	0.0001	0.0009	16.8737	0.2	e	0.0000	0.0000	0.7039	8110	e	0.0621	0.4964	8697.7832
	14:00	525	e	0.0035	0.0070	5.9300	231.1	e	0.0033	0.0065	3.1204	1281.4	e	0.0143	0.0286	16.9023	26.3	e	0.0002	0.0004	0.7043	1041785	e	7.6255	15.2509	8713.0341
	15:30	542	e	0.0037	0.0055	5.9355	238.7	e	0.0034	0.0051	3.1255	1323.6	e	0.0150	0.0225	16.9247	27.1	e	0.0002	0.0003	0.7047	1076096	e	7.9889	11.9833	8725.0173
1/14/2009	7:30	48	e	0.0023	0.3713	6.3068	21.0	e	0.0021	0.3469	3.4724	116.6	e	0.0092	1.5242	18.4490	2.4	e	0.0001	0.0235	0.7282	94821	e	4.9258	812.7608	9537.7781
	9:30	43	e	0.0003	0.0006	6.3074	18.8	e	0.0003	0.0006	3.4730	104.4	e	0.0013	0.0026	18.4516	2.1	e	0.0000	0.0000	0.7282	84840	e	0.6891	1.3782	9539.1563
	11:35	37	e	0.0003	0.0006	6.3080	16.5	e	0.0002	0.0005	3.4735	91.3	e	0.0011	0.0023	18.4538	1.9	e	0.0000	0.0000	0.7283	74235	e	0.5836	1.2157	9540.3720
1/20/2009	10:15	49	e	0.0003	0.0224	6.3304	21.4	e	0.0003	0.0210	3.4945	118.9	e	0.0014	0.0921	18.5459	2.4	e	0.0000	0.0014	0.7297	96693	e	0.7555	49.1078	9589.4799
	11:15	43	e	0.0003	0.0003	6.3307	18.7	e	0.0003	0.0003	3.4948	104.0	e	0.0012	0.0012	18.5471	2.1	e	0.0000	0.0000	0.7297	84528	e	0.6498	0.6498	9590.1296
3/25/2009	13:30	73	e	0.0004	0.0587	6.3894	32.3	e	0.0004	0.0548	3.5496	179.2	e	0.0017	0.2409	18.7881	3.7	e	0.0000	0.0037	0.7334	145663	e	0.9048	128.4751	9718.6047
	16:30	90	e	0.0006	0.0019	6.3913	39.4	e	0.0006	0.0018	3.5514	218.7	e	0.0026	0.0078	18.7959	4.5	e	0.0000	0.0001	0.7335	177790	e	1.3937	4.1810	9722.7857
4/6/2009	14:30	44		0.0003	0.0440	6.4354	35.0		0.0005	0.0743	3.6257	260		0.0030	0.4376	19.2335	2.5	m	0.0000	0.0031	0.7366	76100	m+	0.5834	84.0075	9806.7932
	16:30																									
4/16/2009	13:45																									
	14:30	1	e	0.0000	0.0000	6.4354	1.1	e	0.0000	0.0000	3.6258	8.3	e	0.0001	0.0003	19.2338	0.1	e	0.0000	0.0000	0.7366	2416	e	0.0178	0.0535	9806.8467
	15:45	46	e	0.0003	0.0004	6.4358	36.9	e	0.0006	0.0007	3.6265	274.4	e	0.0033	0.0042	19.2380	2.6	e</								

Table 2
Summary of Mass Removal Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	Benzene					Tetrachloroethylene					Trichloroethylene					1,2-Dichloroethane					C ₂ through C ₆₊				
		Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv)	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)
8/21/2009	9:10	41		0.0003	0.0495	6.8133	64		0.0010	0.1640	4.4892	210		0.0026	0.4264	22.8068	2.5	m	0.0000	0.0037	0.7640	113000	m+	0.9176	150.4857	10684.9527
8/24/2009	12:00	41		0.0003	0.0011	6.8144	64		0.0009	0.0036	4.4929	210		0.0024	0.0094	22.8163	2.5	m	0.0000	0.0001	0.7641	113000	m+	0.8331	3.3324	10688.2851
9/14/2009																										
9/16/2009	12:20	41		0.0003	0.0031	6.8175	64		0.0009	0.0104	4.5033	210		0.0023	0.0271	22.8433	2.5	m	0.0000	0.0002	0.7643	113000	m+	0.7956	9.5475	10697.8325
9/30/2009	13:30	41		0.0003	0.0465	6.8640	64		0.0010	0.1541	4.6574	210		0.0026	0.4008	23.2441	2.5	m	0.0000	0.0035	0.7679	113000	m+	0.9305	141.4354	10839.2680
10/20/2009	13:20	38		0.0003	0.0292	6.8932	62		0.0010	0.1010	4.7584	250		0.0031	0.3227	23.5668	4.1	m	0.0000	0.0040	0.7718	113100	m+	0.9297	95.7562	10935.0242
11/4/2009	8:45	86	e	0.0004	0.0635	6.9567	140.0	e	0.0015	0.2200	4.9784	564.4	e	0.0049	0.7029	24.2697	9.3	e	0.0001	0.0087	0.7805	255315	e	1.4686	208.5448	11143.5690
11/25/2009	7:45	33	e	0.0004	0.0721	7.0288	54.4	e	0.0015	0.2498	5.2281	219.3	e	0.0049	0.7980	25.0676	3.6	e	0.0001	0.0099	0.7904	99214	e	1.4526	236.7698	11380.3388
12/29/2009	13:50	25	e	0.0002	0.0264	7.0552	40.8	e	0.0007	0.0914	5.3196	164.4	e	0.0022	0.2922	25.3598	2.7	e	0.0000	0.0036	0.7940	74355	e	0.6668	86.6856	11467.0244
1/5/2010	13:00	23	e	0.0002	0.0016	7.0568	36.8	e	0.0006	0.0054	5.3250	148.5	e	0.0019	0.0174	25.3772	2.4	e	0.0000	0.0002	0.7942	67188	e	0.5734	5.1603	11472.1847
3/25/2010	15:30	66		0.0005	0.0765	7.1333	82.0		0.0013	0.2018	5.5268	320.0		0.0039	0.6239	26.0011	4.1	m	0.0000	0.0060	0.8002	48100	m+	0.3820	61.5089	11533.6936
5/14/2010	12:45	66		0.0005	0.0766	7.2099	82.0		0.0012	0.2020	5.7288	320.0		0.0037	0.6247	26.6258	4.1	m	0.0000	0.0060	0.8063	48100	m+	0.3644	61.5880	11595.2816
6/21/2010	10:00	66		0.0005	0.0781	7.2879	82.0		0.0013	0.2059	5.9347	320.0		0.0040	0.6366	27.2625	4.1	m	0.0000	0.0061	0.8124	48100	m+	0.3922	62.7590	11658.0406
7/16/2010	11:30	66		0.0005	0.0620	7.3499	82.0		0.0013	0.1635	6.0982	320.0		0.0039	0.5057	27.7681	4.1	m	0.0000	0.0049	0.8173	48100	m+	0.3864	49.8504	11707.8910
8/13/2010	11:30	70	e	0.0005	0.0755	7.4254	87.5	e	0.0014	0.1990	6.2973	341.3	e	0.0043	0.6154	28.3835	4.4	e	0.0000	0.0059	0.8232	51307	e	0.4213	60.6698	11768.5608
	14:50	92	e	0.0007	0.0021	7.4275	114.3	e	0.0019	0.0056	6.3028	446.1	e	0.0058	0.0173	28.4008	5.7	e	0.0001	0.0002	0.8234	67048	e	0.5674	1.7023	11770.2631
8/27/2010	10:00	61		0.0005	0.0520	7.4795	81.0		0.0013	0.1467	6.4495	250.0		0.0032	0.3588	28.7596	3.1	m	0.0000	0.0034	0.8267	153200	m+	1.2760	144.1903	11914.4535
9/24/2010	11:25	61		0.0005	0.0757	7.5552	81.0		0.0013	0.2134	6.6629	250.0		0.0033	0.5219	29.2814	3.1	m	0.0000	0.0049	0.8316	153200	m+	1.3110	209.7523	12124.2058
4/15/2011	7:40																									
5/11/2011	11:00	61		0.0004	0.0004	7.5557	81.0		0.0012	0.0012	6.6642	250.0		0.0030	0.0030	29.2845	3.1	m	0.0000	0.0000	0.8316	153200	m+	1.2175	1.2175	12125.4233
	13:45	51		0.0004	0.0010	7.5567	71.0		0.0011	0.0030	6.6672	340.0		0.0042	0.0114	29.2959	2.5		0.0000	0.0001	0.8317	107100		0.8574	2.3579	12127.7812
7/20/2011	8:30	51		0.0003	0.0152	7.5719	71.0		0.0010	0.0449	6.7121	340.0		0.0036	0.1705	29.4663	2.5		0.0000	0.0009	0.8326	107100		0.7493	35.2160	12162.9972
7/25/2011	10:20	30		0.0002	0.0248	7.5966	35.0		0.0005	0.0613	6.7735	150.0		0.0017	0.2083	29.6747	5.0	m	0.0000	0.0052	0.8379	165983	e	1.0365	124.3786	12287.3758
8/3/2011	16:30	30		0.0002	0.0352	7.6318	35.0		0.0005	0.0872	6.8607	150.0		0.0016	0.2961	29.9708	5.0		0.0000	0.0074	0.8453	119988	e	0.9692	185.1244	12472.5003
8/10/2011	9:30	30		0.0002	0.0322	7.6641	35.0		0.0005	0.0798	6.9405	150.0		0.0018	0.2711	30.2419	5.0		0.0000	0.0068	0.8521	130653	e	1.0105	148.5497	12621.0500
8/18/2011	12:15	30		0.0002	0.0367	7.7008	35.0		0.0005	0.0910	7.0314	150.0		0.0016	0.3089	30.5508	5.0		0.0000	0.0078	0.8599	116432	e	0.8782	166.8603	12787.9103
8/24/2011	8:30	30		0.0002	0.0327	7.7335	35.0		0.0006	0.0809	7.1124	150.0		0.0020	0.2748	30.8256	5.0		0.0000	0.0069	0.8668	104656	e	0.9626	132.8376	12920.7479
	11:00	43		0.0003	0.0008	7.7343	33.0		0.0005	0.0014	7.1137	150.0		0.0020	0.0049	30.8305	1.3	m	0.0000	0.0000	0.8668	188430	m+	1.6102	4.0255	12924.7734
8/31/2011	10:40	43		0.0003	0.0547	7.7890	33.0		0.0005	0.0892	7.2029	150.0		0.0020	0.3212	31.1517	1.3	m	0.0000	0.0020	0.8688	188430	m+	1.6183	264.5999	13189.3733
9/8/2011	7:30	43	e	0.0005	0.0865	7.8755	33.2	e	0.0008	0.1409	7.3438	150.8	e	0.0027	0.5076	31.6593	1.3	e	0.0000	0.0032	0.8720	189493	e	2.2486	418.2408	13607.6141
	11:30	132	e	0.0013	0.0051	7.8807	101.1	e	0.0021	0.0084	7.3522	459.6	e	0.0075	0.0301	31.6894	3.8	e	0.0000	0.0002	0.8722	577333	e	6.2018	24.8074	13632.4215
9/13/2011	9:00	54		0.0005	0.0610	7.9416	25		0.0005	0.0599	7.4121	110		0.0018	0.2090	31.8984	1.3	m	0.0000	0.0018	0.8740	747500	m+	8.0986	931.3405	14563.7620
10/6/2011	12:45	54		0.0004	0.0017	7.9434	25		0.0004	0.0017	7.4138	110		0.0015	0.0059	31.9043	1.3	m	0.0000	0.0001	0.8740	747500	m+	6.5620	26.2480	14590.0099
10/14/2011	9:20	54		0.0004	0.0181	7.9615	25		0.0004	0.0178	7.4317	110		0.0014	0.0622	31.9664	1.3	m	0.0000	0.0005	0.8746	747500	m+	6.4418	276.9965	14867.0064
10/20/2011	10:00	63		0.0005	0.0490	8.0105	22		0.0004	0.0363	7.4680	170		0.0024	0.2223	32.1887	1.3	m	0.0000	0.0012	0.8758	496500	m+	4.5298	425.8026	15292.8090
10/27/2011	11:00	63		0.0005	0.0320	8.0424	22		0.0004	0.0237	7.4917	170		0.0023	0.1450	32.3338	1.3	m	0.0000	0.0008	0.8766	496500	m+	4.4810	277.8197	15570.6287
11/3/2011	14:00	63		0.0005	0.0233	8.0657	22		0.0004	0.0172	7.5089	170		0.0023	0.1056	32.4393	1.3	m	0.0000	0.0006	0.8772	496500	m+	4.3962	202.2244	15772.8531
11/10/2011	10:30	63		0.0005	0.0155	8.0812	22		0.0004	0.0115	7.5204	170		0.0024	0.0705	32.5099	1.3	m	0.0000	0.0004	0.8776	496500	m+	4.6593	135.1207	15907.9738
11/17/2011	8:30	2.5	m	0.0000	0.0008	8.0820	2.5	m	0.0000	0.0017	7.5221	163		0.0023	0.0874	32.5972	2.5	m	0.0000	0.0010	0.8786	160650	m+	1.4864	56.4814	15964.4552
11/29/2011	9:45	2.5	m	0.0000	0.0007	8.0828	2.5	m	0.0000	0.0016	7.5237	163		0.0023	0.0814	32.6787	2.5	m	0.0000	0.0009	0.8795	160650	m+	1.5036	52.6272	16017.0824
12/7/2011	7:30	2.5	m	0.0000	0.0008	8.0836	2.5	m	0.0000	0.0018	7.5255	163		0.0024	0.0916	32.7703	2.5	m	0.0000	0.0011	0.8806	160650	m+	1.5580	59.2043	16076.2867
12/13/2011	12:00	2.5	m	0.0000	0.0005	8.0841	2.5	m	0.0000	0.0011	7.5266	163		0.0024	0.0573	32.8275	2.5	m	0.0000	0.0007	0.8812	160650	m+	1.5426	37.0223	16113.3090
12/20/2011	12:45	74.0		0.0006	0.0128	8.0969	66.0		0.0012	0.0242	7.5508	260		0.0038	0.0756	32.9031	25.0	m	0.0003	0.0055	0.8867	47000	m+	0.4480	8.9598	16122.2689
12/27/2011	13:45	74.0	m	0.0006	0.0161	8.1130	66.0		0.0012	0.0306	7.5813	260		0.0037	0.0954	32.9985	25.0	m	0.0003	0.0069	0.8936	47000	m+	0.4351	11.3116	16133.5805
1/3/2012	16:00	74.0		0.0006	0.0168	8.1298	66.0		0.0012	0.0317	7.6131	260		0.0037	0.0991	33.0976	25.0	m	0.0003	0.0072	0.9008	47000	m+	0.4351	11.7467	16145.3272
1/10/2012	14:00	74.0		0.0006	0.0246	8.1544	66.0		0.0012	0.0466	7.6597	260		0.0037	0.1454	33.2430	25.0	m	0.0003	0.0105	0.911					

Table 2
 Summary of Mass Removal Data
 Former Lubrication Company of America Site
 12500 Lang Station Road
 Canyon Country, California
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Date	Time	Benzene					Tetrachloroethylene					Trichloroethylene					1,2-Dichloroethane					C ₂ through C ₆₊									
		Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)	Influent Lab Concentration (ppbv) [*]	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)					
1/27/2012	10:00	25.0	m	0.0002	0.0044	8.1658	60		0.0011	0.0224	7.7176	250		0.0035	0.0738	33.4341	25.0	m	0.0003	0.0056	0.9257	52200	m+	0.4815	10.1123	16188.7416					
1/31/2012	14:00	25.0	m	0.0002	0.0181	8.1838	60		0.0009	0.0920	7.8096	250		0.0031	0.3038	33.7380	25.0	m	0.0002	0.0229	0.9486	52200	m+	0.4290	41.6101	16230.3517					
2/7/2012	10:00	25.0	m	0.0002	0.0069	8.1907	60		0.0010	0.0349	7.8445	250		0.0034	0.1153	33.8533	25.0	m	0.0003	0.0087	0.9573	52200	m+	0.4645	15.7947	16246.1464					
2/14/2012	13:30	50.0	m	0.0005	0.0132	8.2039	380		0.0073	0.2128	8.0573	350		0.0054	0.1553	34.0086	50.0	m	0.0006	0.0167	0.9740	6850	m+	0.0687	1.9937	16248.1401					
2/21/2012	14:00	50.0	m	0.0005	0.0142	8.2180	380		0.0074	0.2285	8.2858	350		0.0054	0.1667	34.1754	50.0	m	0.0006	0.0179	0.9919	6850	m+	0.0690	2.1402	16250.2803					
2/28/2012	12:00	50.0	m	0.0005	0.0271	8.2451	380		0.0073	0.4369	8.7227	350		0.0053	0.3189	34.4943	50.0	m	0.0006	0.0343	1.0262	6850	m+	0.0682	4.0932	16254.3735					
3/6/2012	11:00	50.0	m	0.0004	0.0151	8.2602	380		0.0071	0.2430	8.9657	350		0.0052	0.1773	34.6716	50.0	m	0.0006	0.0191	1.0453	6850	m+	0.0670	2.2765	16256.6500					
3/13/2012	13:00	50.0	m	0.0004	0.0126	8.2728	380		0.0070	0.2029	9.1686	350		0.0051	0.1481	34.8197	50.0	m	0.0005	0.0159	1.0613	6850	m+	0.0655	1.9008	16258.5508					
3/20/2012	13:00	25.0	m	0.0002	0.0097	8.2824	25	m	0.0005	0.0206	9.1892	120		0.0018	0.0782	34.8979	25.0	m	0.0003	0.0123	1.0735	49510	m+	0.4809	21.1599	16279.7107					
3/27/2012	14:00	25.0	m	0.0002	0.0076	8.2900	25	m	0.0005	0.0161	9.2053	120		0.0018	0.0613	34.9592	25.0	m	0.0003	0.0096	1.0831	49510	m+	0.4742	16.5967	16296.3074					
4/3/2012	14:45	25.0	m	0.0002	0.0121	8.3021	25	m	0.0005	0.0256	9.2310	120		0.0018	0.0975	35.0568	25.0	m	0.0003	0.0153	1.0984	49510	m+	0.4799	26.3935	16322.7008					
4/10/2012	18:00	25.0	m	0.0002	0.0119	8.3140	25	m	0.0005	0.0252	9.2562	120		0.0017	0.0959	35.1526	25.0	m	0.0003	0.0150	1.1135	49510	m+	0.4634	25.9491	16348.6500					
4/17/2012	15:30	50.0	m	0.0004	0.0139	8.3279	50	m	0.0009	0.0296	9.2857	190		0.0027	0.0890	35.2417	50.0	m	0.0005	0.0176	1.1311	42620	m+	0.3969	13.0989	16361.7489					
4/24/2012	13:00	50.0	m	0.0004	0.0359	8.3638	50	m	0.0009	0.0761	9.3619	190		0.0027	0.2293	35.4710	50.0	m	0.0005	0.0454	1.1766	42620	m+	0.3968	33.7301	16395.4790					
5/1/2012	15:00	50.0	m	0.0004	0.0216	8.3853	50	m	0.0009	0.0458	9.4076	190		0.0026	0.1378	35.6087	50.0	m	0.0005	0.0273	1.2039	42620	m+	0.3898	20.2700	16415.7490					
5/8/2012	13:30	50.0	m	0.0004	0.0248	8.4102	50	m	0.0008	0.0527	9.4604	190		0.0024	0.1587	35.7674	50.0	m	0.0005	0.0315	1.2353	42620	m+	0.3592	23.3494	16439.0984					
5/15/2012	13:30	50.0	m	0.0004	0.0430	8.4531	50	m	0.0009	0.0912	9.5515	190		0.0026	0.2746	36.0420	50.0	m	0.0005	0.0544	1.2898	42620	m+	0.3775	40.3957	16479.4941					
5/22/2012	12:30	60.0	m	0.0005	0.0373	8.4904	60	m	0.0010	0.0792	9.6307	180		0.0024	0.1882	36.2303	60.0	m	0.0006	0.0473	1.3370	93970	m+	0.8159	64.4527	16543.9468					
	16:00	99	e	0.0008	0.0027	8.4931	99	e	0.0016	0.0057	9.6364	298	e	0.0038	0.0134	36.2437	99	e	0.0010	0.0034	1.3404	155790	e	1.3146	4.6012	16548.5480					
5/29/2012	13:00	13	e	0.0003	0.0160	8.5090	13	e	0.0007	0.0339	9.6703	38	e	0.0016	0.0806	36.3243	13	e	0.0004	0.0202	1.3606	19770	e	0.5463	27.5858	16576.1338					
	17:30	91	e	0.0007	0.0032	8.5123	91	e	0.0015	0.0069	9.6772	273	e	0.0036	0.0164	36.3406	91	e	0.0009	0.0041	1.3647	142353	e	1.2462	5.6080	16581.7418					
6/5/2012	13:00	18	e	0.0003	0.0254	8.5377	18	e	0.0007	0.0538	9.7310	53	e	0.0016	0.1280	36.4686	18	e	0.0004	0.0321	1.3969	27540	e	0.5312	43.8260	16625.5678					
6/11/2012	12:30	21	e	0.0001	0.0049	8.5425	21	e	0.0002	0.0104	9.7414	62	e	0.0006	0.0247	36.4933	21	e	0.0001	0.0062	1.4031	32403	e	0.1922	8.4554	16634.0232					
6/19/2012	15:00	23	e	0.0001	0.0112	8.5538	23	e	0.0003	0.0239	9.7653	68	e	0.0006	0.0567	36.5501	23	e	0.0002	0.0142	1.4173	35575	e	0.2158	19.4229	16653.4461					
6/26/2012	9:00																														
	12:30	320		0.0022	0.1667	8.7204	125	m	0.0018	0.1382	9.9035	125	m	0.0015	0.1095	36.6596	125	m	0.0011	0.0825	1.4998	193300	m	1.4809	111.0678	16764.5138					
		Benzene Removed					8.7204	Tetrachloroethylene Removed					9.9035	Trichloroethylene Removed					36.6596	1,2-Dichloroethane Removed					1.4998	C₂ through C₆₊ Removed					16,764.5138

Table 2
 Summary of Mass Removal Data
 Former Lubrication Company of America Site
 12500 Lang Station Road
 Canyon Country, California
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Date	Time	System Operational Data											Vinyl Chloride				
		Hour Meter (hrs)	Actual (hrs)	Cumulative Hours	Temp (°F)	Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Flow Rate (acfm)	Flow Rate ^a (scfm)	Total Influent Concentration (ppbv) ^b	Notes	Influent Lab Concentration (ppbv) ^c	Notes	Removal Rate (lbs/hr)	Total Removal (lbs)	Cumulative Removal (lbs)

Notes * = Lab concentrations are used when no adjustments are made to the system. When adjustments are made, then the estimated lab concentration is calculated (e).

Estimated Lab Concentration (e) = (LC / FR_o) * FR_i

LC = Lab Concentration of the compound in question

FR_o = Field Concentration found at the time the lab sample was taken

FR_i = Field Concentration corresponding to the Estimated Lab Concentration

Removal Rate (lbs/hr) = [(Flow Rate in scfm)*(28.31 L/ft³)*(60 min/hr)*(Influent Concentration in ppbv/10⁹)*(MW of Vinyl Chloride in g/mol)/24.04 L/mol]/454 g/lbs

Total Removal (lbs) = Removal Rate (lbs/hr) * Actual (hrs)

When System Differential Pressure is available, the system flow rate is calculated as shown in Table 2

When System Differential Pressure is not available, the system flow is the value given by the sum of Well Field and Dilution flow rates as shown in Table 2

a = When System Differential Pressure is not available, the system flow is the value given by the sum of Well Field and Dilution flowrates as shown in the Field Summary Tables

b = Concentration reading is in ppmv and is multiplied by 1000 to get ppbv

CF_i = A correction factor of 0.54 is used when the instrument is calibrated to Isobutylene instead of hexane

1) Due to incorrect field concentrations, the field concentrations found on 2/12/07 are not used as IFC_o to calculate the estimated lab concentration (e).

The field concentration found on 2/23/07 at 9:30 AM, 244,000 ppb, is used as IFC_o to calculate the estimated lab concentration (e)

2) An assumption is made that the Max Dilution Air value is 10 in H₂O, until 3/29/07 when a new dilution filter was installed.

3) The average concentration is used to calculate the removal rate between the sample data when the time span between two readings is more than a day (and the SVE system is left running)

4) Although lab data was provided for this day, the detection limits are too high, thus making everything non-detect. So we will continue estimating the influent concentrations, unless a detection was found.

5) New Hour Meter was installed. 20 hours was the initial reading on the meter

6) A TVA or PID with a 10.6 ev lamp is used starting on 10/14/11

Definitions

hrs: hours

cfm: cubic feet per minute

scfm: standard cubic feet per minute

inches H₂O: inches of water

ppbv: parts per billion by volume

lbs: pounds

NM: not measured

NA: not available

ND: non-detect

"-": non-detect, not available, not measured

e: estimate made from lab data. This is used if a change was made to the system between lab data collection. This estimate will be used until lab data is collected.

If no change is made to the SVE system, then lab data is used.

m: ND result, so using 1/2 MRL (or 1/2 PQL from ATL)

m+: a summation of ND (1/2 MRL) and actual concentrations

italics: Used 0.54 correlation factor to go from Isobutylene to Hexane

Constants and Conversions

24.04 L/mol = Molar volume constant

28.31 liters = 1 cubic foot

60 minutes = 1 hour

Molecular Weights

Vinyl Chloride = 62.499 g/mol

1,1-DCA = 98.96 g/mol

Methylene Chloride = 84.93 g/mol

Benzene = 78.11 g/mol

Tetrachloroethene = 165.83 g/mol

Trichloroethene = 131.40 g/mol

1,2-Dichloroethane = 98.96 g/mol

C2 through C6+ (MW of hexane) = 86.18 g/mol

Table 3
 Summary of System Field Data
 Former Lubrication Company of America Site
 12500 Lang Station Road
 Canyon Country, California
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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _S ¹ (ft ³ /min)	Well Field		Influent		MID GAC		
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %	
5/12/2006	6:30 AM																					
	12:30 PM	NA	91	NM	NA	NM	575	NM	NA	NM	0	NM	12.5	4.5	575		NM		NM	518	NM	
	1:00 PM																					
5/22/2006	8:30 AM																					
	9:30 AM	NA	62	NM	NA	NM	347	NM	NA	NM	164	NM	14.2	1	511	27	NM	27	NM	0	NM	
	12:00 PM																					
6/14/06	8:35 AM																					
	10:30 AM	NA	86	0.15	NA	NM	200	3	NA	NM	100	0.25	13.4	2.6	300	16.7	NM	16.7	NM	0	NM	
	11:50 AM																					
7/6/2006	8:15 AM																					
	9:00 AM	NA	83	0.95	NA	NM	490	0	NA	NM	0	NM	13.6	2.2	490	NM	NM	NM	NM	NM	NM	
	12:30 PM	NA	95	0.08	NA	NM	NA	7.4	NA	NM	NA	NM	13.1	3.2	425	9	NM	9	NM	0	NM	
8/22/2006	1:00 PM																					
	8:50 AM																					
	9:00 AM	NA	90	2	NM	NM	NA	0	NM	NM	NA	2.5	10.8	8	728	NM	NM	NM	NM	NM	NM	
	9:20 AM	NA	90	2	NM	NM	NA	0	NM	NM	NA	1.5	10.8	8	564	NM	NM	NM	NM	NM	NM	
	9:40 AM	NA	90	1	NM	NM	NA	0	NM	NM	NA	1.25	10.8	8	515	NM	NM	NM	NM	NM	NM	
2/12/2007	10:00 AM	NA	90	0.85	NM	NM	NA	6.5	NM	NM	NA	1	10.8	8	461	NM	NM	NM	NM	NM	NM	
	10:20 AM																					
	9:30 AM																					
	10:30 AM	NA	75	1.6	13.7	2	667	2.8	13.2	3.0	204	0.8	14.7	0.0	871	3.8	NM	3.5	NM	0	NM	
	12:00 PM	NA	75	1.6	12.2	5	630	2.8	12.2	5.0	197	0.8	14.7	0.0	827	9.2	NM	5.3	NM	0	NM	
2/23/2007	1:00 PM																					
	8:30 AM																					
	9:30 AM	NA	58	1.75	12.2	5	670	1.7	12.2	5	156	NM	12.2	5	825	279	NM	244	NM	0	NM	
	10:45 AM	NA	58	1.75	13.7	2	709	1.7	13.2	3	162	NM	12.2	5	871	236	NM	238	NM	NM	NM	
	2:30 PM	NA	65	0.55	13.7	2	395	10	13.2	3	390	NM	12.2	5	784	87.1	NM	94.3	NM	1.2	NM	
	2:50 PM	NA	65	0.55	13.7	2	395	10	13.2	3	390	NM	12.2	5	784	126	NM	86.5	NM	0	NM	
2/26/2007	3:45 PM	NA	65	0.55	13.2	3	388	10	13.2	3	390	NM	12.2	5	777	91.3	NM	56.2	NM	0	NM	
	4:45 PM	NA	59	0.5	13.2	3	372	10	13.2	3	392	NM	12.2	5	764	NM	NM	NM	NM	NM	NM	
	8:00 AM	NA	57	0.45	13.2	3	353	10	13.2	3	393	NM	12.2	5	746	280	NM	81.1	NM	45.1	NM	
	1:00 PM	NA	70	0.4	13.2	3	329	10	13.2	3	388	NM	12.2	5	717	32.2	NM	69.1	NM	19.2	NM	
	1:30 PM	NA	70	0.4	13.2	3	329	10	13.2	3	388	NM	12.2	5	717	39.4	NM	76.6	NM	NM	NM	
2/28/2007	2:40 PM																					
	9:40 AM																					
	10:00 AM	NA	60	0.4	13.2	3	332	10	13.2	3	392	NM	12.0	5.5	724	52.3	NM	73.2	NM	18.1	NM	
	12:15 PM	NA	60	0.4	13.2	3	332	10	13.2	3	392	NM	12.0	5.5	724	58.6	NM	65.2	NM	10.5	NM	
	2:00 PM	NA	58	0.05	12.2	5	113	20	12.5	4.5	539	NM	12.2	5	653	2	NM	2	NM	7.6	NM	
	3:00 PM	NA	56	0.42	13.2	3	342	10	13.2	3	393	NM	12.2	5	735	51	NM	64	NM	5.3	NM	
3/1/2007	3:40 PM	NA	56	0.42	13.2	3	342	10	13.2	3	393	NM	12.2	5	735	NM	NM	NM	NM	5.7	NM	
	8:15 AM	NA	51	0.4	13.2	3	335	10	13.2	3	395	NM	12.2	5	730	64.4	NM	75.3	NM	14.2	NM	
	10:30 AM	NA	59	0.4	13.2	3	332	10	13.2	3	392	NM	12.0	5.5	724	NM	NM	NM	NM	NM	NM	
	10:55 AM																					

Table 3
Summary of System Field Data
Former Lubrication Company of America Site
12500 Lang Station Road
Canyon Country, California
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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _s ¹ (ft ³ /min)	Well Field		Influent		MID GAC								
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %							
3/29/2007	9:10 AM						<i>Start Up SVE System</i>																					
	9:25 AM	20	60	0	NM	NM	NA	32.5	12.2	5	679	NM	10.8	8	679	NM	NM	NM	NM	NM	NM							
	10:45 AM	21	58	0	NM	NM	NA	32	12.2	5	675	NM	10.8	8	675	NM	NM	NM	NM	NM	NM							
4/2/2007	8:15 AM	114	57	0	NM	NM	NA	33	12.2	5	687	NM	10.5	8.5	687	NM	NM	3.5	NM	5.2	NM							
	10:30 AM	116	70	0.05	12.2	5	112	30	12.2	5	647	NM	10.3	9	758	0	NM	0	NM	0.3	NM							
4/3/2007	11:35 AM	140	71	0.05	12.2	5	112	30.5	12.2	5	651	NM	10.3	9	763	1.3	NM	1.8	NM	2.1	NM							
	12:00 PM	141	71	0.05	12.2	5	112	30.5	12.2	5	651	NM	10.3	9	763	NM	NM	NM	NM	NM	NM							
	1:00 PM	142	76	0.05	12.2	5	111	30.5	12.2	5	648	NM	10.0	9.5	760	0	NM	0	NM	0.2	NM							
4/6/2007	7:20 AM	208	59	0.05	12.2	5	113	30.5	12.2	5	659	NM	11.3	7	772	1.1	NM	1.2	NM	0.9	NM							
	8:20 AM	209	59	0.05	12.2	5	113	30.5	12.2	5	659	NM	11.3	7	772	0.7	NM	0.9	NM	0.2	NM							
	9:40 AM	211	65	0.05	12.2	5	112	30.5	12.2	5	655	NM	10.5	8.5	767	0	NM	0	NM	0	NM							
	11:00 AM	212	65	0.05	12.2	5	112	30.5	12.2	5	655	NM	10.5	8.5	767	0.5	NM	0.7	NM	0	NM							
4/9/2007	7:50 AM	281	49	0.05	12.2	5	114	30.5	12.2	5	665	NM	11.3	7	779	0.8	NM	1.3	NM	0.8	NM							
	9:15 AM	282	49	0.05	12.2	5	114	30.5	12.2	5	665	NM	11.3	7	779	0	NM	0.2	NM	0.2	NM							
	11:05 AM	284	70	0.05	12.2	5	112	27.5	12.2	5	619	NM	10.8	8	731	0	NM	0.2	NM	0	NM							
	2:15 PM	287	76	0.05	13.0	3.5	115	26	12.7	4	610	NM	10.3	9	725	44.1	NM	6.5	NM	0	NM							
	3:40 PM	289	76	0.05	13.0	3.5	115	26	12.7	4	610	NM	10.5	8.5	725	36.6	NM	6.3	NM	0	NM							
4/11/2007	4:45 PM	290	75	0.05	13.0	3.5	115	27	12.7	4	623	NM	10.3	9	737	62.5	NM	3.6	NM	0	NM							
	7:45 AM	328	48	0.05	13.0	3.5	118	27	12.7	4	639	NM	11.5	6.5	757	93.3	NM	9.4	NM	0.1	NM							
	9:45 AM	330	63	0.05	13.0	3.5	116	27	12.7	4	630	NM	11.0	7.5	746	30.1	NM	5.7	NM	0	NM							
4/13/2007	11:15 AM	331	63	0.05	13.0	3.5	116	27	12.7	4	630	NM	11.0	7.5	746	89	NM	4.4	NM	0	NM							
	7:40 AM	376	52	0.05	13.0	3.5	117	27	12.7	4	636	NM	11.3	7	754	68.1	NM	8.3	NM	0	NM							
	9:15 AM	377	60	0.05	13.0	3.5	116	27	12.7	4	632	NM	11.3	7	748	56.6	NM	6.7	NM	0	NM							
	10:30 AM	378	64	0.05	13.0	3.5	116	27	12.7	4	629	NM	11.0	7.5	745	89.1	NM	5.9	NM	0	NM							
4/16/2007	7:40 AM	448	49	0.05	13.0	3.5	118	27	12.7	4	638	NM	11.8	6	756	98.4	NM	10.9	NM	0	NM							
	9:20 AM	449	59	0.05	13.0	3.5	116	27	12.7	4	632	NM	11.0	7.5	749	86.7	NM	7.5	NM	0	NM							
	10:50 AM	450	66	0.05	13.0	3.5	116	27	12.7	4	628	NM	11.0	7.5	744	98.1	NM	5.7	NM	0	NM							
4/19/2007	3:00 PM	526	74	0.1	13.0	3.5	162	1	12.7	4	120	NM	9.8	10	282	NM	NM	NM	NM	NM	NM							
	3:20 PM	526	69	0.05	13.0	3.5	115	26.5	12.7	4	620	NM	10.5	8.5	736	107	NM	5.7	NM	0	NM							
	5:00 PM	527	63	0.05	13.0	3.5	116	26.5	12.7	4	624	NM	11.0	7.5	740	60.2	NM	6.1	NM	0	NM							
4/21/2007	11:00 AM						<i>Shut Down SVE System</i>																					
4/24/2007	8:30 AM							<i>Start Up SVE System</i>																				
	2:25 PM	575	77	0.05	13.0	3.5	114	27	12.7	4	621	NM	10.0	9.5	736	165	NM	4.2	NM	0	NM							
	5:00 PM	577	79	0.05	13.0	3.5	114	26.5	12.7	4	615	NM	10.3	9	729	40.3	NM	4	NM	0	NM							
4/26/2007	2:00 PM	622	79	0.05	13.0	3.5	114	26.5	12.7	4	615	NM	10.0	9.5	729	92	NM	7.6	NM	0.3	NM							
	3:40 PM	623	79	0.05	13.0	3.5	114	26.5	12.7	4	615	NM	10.0	9.5	729	86.1	NM	5.1	NM	0	NM							
	4:35 PM	624	81	0.05	13.0	3.5	114	24.5	13.0	3.5	595	NM	10.8	8	710	NM	NM	NM	NM	NM	NM							
4/28/2007	10:30 AM						<i>Shut Down SVE System</i>																					
5/1/2007	6:00 AM							<i>Start Up SVE System</i>																				
	7:35 AM	667	60	0.05	13.0	3.5	116	25.5	13.0	3.5	620	NM	11.5	6.5	736	NM	NM	NM	NM	NM	NM							
	8:10 AM	667	60	0.05	13.0	3.5	116	24	13.0	3.5	601	NM	12.2	5	717	35.4	NM	12.5	NM	0.1	NM							
	9:45 AM	669	68	0.05	13.0	3.5	115	23.5	13.0	3.5	590	NM	11.8	6	706	32.2	NM	10.4	NM	0	NM							
	10:50 AM	670	73	0.05	13.0	3.5	115	23.5	13.0	3.5	588	NM	11.5	6.5	702	23.3	NM	5.7	NM	0	NM							
5/4/2007	9:45 AM	740	56	0.05	13.0	3.5	117	24	13.0	3.5	603	NM	12.2	5	720	20.2	NM	8.1	NM	0	NM							
	10:45 AM	741	56	0.05	13.0	3.5	117	24	13.0	3.5	603	NM	12.2	5	720	21.1	NM	6.1	NM	0	NM							
	11:50 AM	742	56	0.1	13.0	3.5	165	21	13.0	3.5	565	NM	12.2	5	730	NM	NM	NM	NM	NM	NM							
	12:30 PM	742	73	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	12.2	5	705	NM	NM	NM	NM	NM	NM							
	1:40 PM	744	74	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	12.2	5	704	18.3	NM	5.9	NM	0	NM							
	2:45 PM	745	74	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	12.2	5	704	14.4	NM	4.9	NM	NM	NM							

Table 3
Summary of System Field Data
Former Lubrication Company of America Site
12500 Lang Station Road
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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _s ¹ (ft ³ /min)	Well Field		Influent		MID GAC		
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %	
5/7/2007	9:35 AM	812	74	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	11.3	7	704	15.8	NM	9.9	NM	0	NM	
	11:00 AM	814	74	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	11.3	7	704	17.4	NM	5.8	NM	0	NM	
	12:05 PM	815	74	0.1	13.0	3.5	162	20	13.0	3.5	542	NM	11.3	7	704	13.7	NM	5.2	NM	NM	NM	
	1:45 PM	817	81	0.1	13.0	3.5	161	20	13.0	3.5	538	NM	11.3	7	699	15.5	NM	7.5	NM	0	NM	
5/10/2007	10:45 AM	884	82	0.1	13.0	3.5	161	20	13.0	3.5	538	NM	11.3	7	699	20.5	NM	23.2	NM	0	NM	
	11:45 AM	885	82	0.1	13.0	3.5	161	20	13.0	3.5	538	NM	11.3	7	699	23.2	NM	15.9	NM	0	NM	
	1:15 PM	887	84	0.1	13.0	3.5	161	20	13.0	3.5	537	NM	11.3	7	697	24.2	NM	14.3	NM	0	NM	
	3:00 PM	<i>Shut Down SVE System</i>																				
	3:05 PM	<i>Start Up SVE System</i>																				
5/18/2007	9:15 AM	1074	68	0.1	13.0	3.5	163	20	13.0	3.5	545	2.1	11.3	7	697	23.7	NM	13.3	NM	0	NM	
	10:40 AM	1075	68	0.1	13.0	3.5	163	20	13.0	3.5	545	2.2	11.3	7	713	24.6	NM	12.9	NM	0	NM	
	1:45 PM	1078	68	0.1	13.0	3.5	163	20	13.0	3.5	545	NM	11.3	7	708	34.4	NM	12.2	NM	0	NM	
	2:45 PM	1079	83	0.15	13.0	3.5	197	19	13.0	3.5	523	NM	11.8	6	721	38.8	NM	7.9	NM	0	NM	
	3:00 PM	1080	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/24/2007	12:00 PM	1221	79	0.15	13.0	3.5	198	20	13.0	3.5	539	2.2	11.3	7	706	25.5	NM	12.5	NM	1.3	NM	
	1:00 PM	1222	79	0.15	13.0	3.5	198	20	13.0	3.5	539	2.2	11.3	7	706	28.4	NM	12.6	NM	0.5	NM	
	1:30 PM	1222	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	3:05 PM	1224	81	0.15	13.0	3.5	198	19	13.0	3.5	524	NM	11.3	7	722	31.3	NM	11.9	NM	0.3	NM	
	4:05 PM	1225	81	0.15	13.0	3.5	198	19	13.0	3.5	524	NM	11.3	7	722	39.8	NM	13.5	NM	0.5	NM	
5/30/2007	9:15 AM	1360	67	0.15	13.0	3.5	200	19	13.0	3.5	531	NM	11.3	7	731	101	NM	35.1	NM	15.4	NM	
	10:30 AM	1361	74	0.15	13.0	3.5	199	19	13.0	3.5	528	NM	11.8	6	727	82.2	NM	31.5	NM	17.6	NM	
	11:45 AM	1362	74	0.15	13.0	3.5	199	19	13.0	3.5	528	NM	11.8	6	727	78.9	NM	27.6	NM	16.4	NM	
	12:00 PM	1363	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	2:00 PM	1365	77	0.15	13.0	3.5	198	19	13.0	3.5	526	NM	11.8	6	725	58.2	NM	22.7	NM	12.5	NM	
	3:00 PM	1366	77	0.15	13.0	3.5	198	19	13.0	3.5	526	NM	11.8	6	725	59.7	NM	22.3	NM	10.2	NM	
6/7/2007	9:45 AM	1550	66	0.15	13.0	3.5	200	20	13.0	3.5	546	2.1	11.8	6	713	316	NM	100	NM	32.4	NM	
	10:45 AM	1551	66	0.15	13.0	3.5	200	20	13.0	3.5	546	2.1	11.8	6	713	349	NM	100	NM	38.5	NM	
	12:45 PM	1553	66	0.15	13.0	3.5	200	20	13.0	3.5	546	2.1	11.8	6	713	259	NM	103	NM	43.1	NM	
	2:00 PM	<i>Shut Down SVE System</i>																				
		COMPOUND AND VESSEL EXPANSION																				
		<i>Start Up SVE System</i>																				
11/5/2007	8:54 AM																					
	10:05 AM	1574	89	1	12.2	5	492	0	14.7	0	0	NM	12.2	5	492	41.2	NM	15.1	77.9	0	38.3	
	2:35 PM	1578	96	1.2	12.2	5	535	0	14.7	0	0	NM	11.8	6	535	58.2	NM	60.4	61.4	0	39.3	
11/6/2007	7:46 AM	1595	68	1.15	12.2	5	538	0	14.7	0	0	NM	12.2	5	538	100	NM	105	97	0	42.5	
	12:00 PM	1600	93	1.25	12.2	5	548	0	14.7	0	0	NM	11.8	6	548	73.4	NM	74.2	68.1	0	42.3	
	12:45 PM	<i>Shut Down SVE System to drain Knock Out Pot</i>																				
	1:05 PM	<i>Start Up SVE System</i>																				
	2:15 PM	1602	93	1.2	12.2	5	537	0	14.7	0	0	NM	11.8	6	537	NM	NM	69.7	61.5	0	42.8	
11/8/2007	9:00 AM	1643	65	1.25	12.2	5	562	0	14.7	0	0	NM	12.7	4	562	NM	96.5	228	NM	134	89.8	
	10:30 AM	<i>Shut Down SVE System to drain Knock Out Pot</i>																				
	11:00 AM	<i>Start Up SVE System</i>																				
	1:00 PM	1648	85	1.15	12.2	5	529	0	14.7	0	0	1.3	12.7	4	574	NM	NM	91.5	95.2	72.2	87.7	
	2:30 PM	1649	86	1	12.2	5	493	0	14.7	0	0	1	12.7	4	503	NM	NM	113	95.5	81	91.2	
	4:40 PM	1651	79	0.35	13.2	3	305	1	12.7	4	119	NM	14.2	1	424	NM	NM	170	87.5	107	91	

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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _s ¹ (ft ³ /min)	Well Field		Influent		MID GAC	
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
11/12/2007	10:30 AM	<i>Shut Down SVE System to drain Knock Out Pot</i>																			
	1:10 PM	<i>Start Up SVE System</i>																			
	1:30 PM	1740	78	0.45	13.2	3	346	1	12.7	4	119	NM	13.2	3	466	NM	NM	146	73	236	90.7
	3:20 PM	1742	83	0	14.7	0	0	26.5	12.2	5	600	NM	10.8	8	600	NM	NM	0.7	19.4	125	85.7
	4:00 PM	1743	83	0	14.7	0	0	10	13.2	3	383	NM	10.8	8	383	NM	NM	NM	NM	NM	NM
11/13/2007	10:45 AM	<i>Shut Down SVE System to test alarms</i>																			
	11:15 AM	<i>Start Up SVE System</i>																			
	11:40 AM	1762	67	0	14.7	0	0	10	13.2	3	389	NM	13.7	2	389	NM	NM	0.2	17.3	66.7	76.3
	1:45 PM	1764	77	0.45	13.2	3	347	0.5	12.7	4	85	NM	12.7	4	431	175	95.4	141	71.5	93.7	88.6
11/15/2007	3:15 PM	1766	88	0.45	13.2	3	343	0.5	12.7	4	84	0.8	12.7	4	449	194	96.6	184	72.6	88.2	90
	9:30 AM	1808	66	0.4	13.2	3	330	0.5	12.7	4	85	0.8	13.2	3	467	140	99.5	134	76	217	89.4
	3:55 PM	1814	78	0.6	13.2	3	400	1	12.7	4	119	1.3	12.2	5	566	162	97.9	148	74.4	124	88.7
11/16/2007	7:45 AM	1830	54	0.63	13.2	3	419	1.5	12.7	4	150	1.3	13.2	3	602	272	98.3	255	77.5	221	90.7
	9:15 AM	1832	56	0.95	12.2	5	494	2	12.2	5	169	2.35	11.8	6	762	130	99.2	115	83.8	190	89
	10:15 AM	<i>Shut Down SVE System due to high field concentrations</i>																			
12/6/2007	12:30 PM	<i>Start Up SVE System</i>																			
	1:15 PM	1833	60	1.12	12.2	5	535	2	12.2	5	169	2.65	11.3	7	789	231	97.1	206	90.1	185	86.8
	2:15 PM	1834	62	1.15	12.2	5	541	2	12.2	5	168	2.65	11.3	7	787	299	98	257	89.5	206	87.4
	4:05 PM	<i>Shut Down SVE System due to high field concentrations</i>																			
1/15/2008	8:00 AM	<i>Carbon Change Out</i>																			
	4:20 PM	<i>Start Up SVE System</i>																			
1/16/2008	5:20 PM	1837	76	0.2	13.2	3	231	7	13.2	3	323	1.4	13.7	2	623	276	91.8	216	51.6	0	33.6
	9:30 AM	1853	54	0.2	13.2	3	236	7	13.2	3	330	1.5	14.2	1	670	355	94.2	239	48.1	0	32.1
	11:36 AM	1855	54	0.2	13.2	3	236	7	13.2	3	330	1.5	14.2	1	670	329	94.2	191	48.1	0	32.1
1/21/2008	9:52 AM	1948	44	0.25	13.2	3	267	8	13.2	3	356	NM	NM	NM	623	277	86.4	161	78.7	0	53.2
	11:00 AM	<i>SVE system operation is from now on dependent on outside relative humidity The SVE system will run when the outside relative humidity is ≤40% The SVE system will be shut down when outside relative humidity is ≥ 40%</i>																			
2/12/2008	11:00 AM	2063	67	0.25	13.2	3	261	7	13.2	3	326	1.5	13.2	3	639	329	86	190	33.7	0	49.8
	3:50 PM	2068	78	0.2	13.7	2	235	7	14.0	1.5	331	1.5	13.2	3	632	283	77.8	166	43.9	0	33.7
2/13/2008	1:35 PM	2076	79	0.2	13.5	2.5	233	6.8	14.2	1	329	1.2	13.2	3	565	306	86	167	33.7	0	49.8
2/19/2008	8:54 AM	2125	64	0.2	13.2	3	234	7	13.2	3	326	1.5	14.7	0	675	331	96.2	238	91.8	0	87.9
3/10/2008	8:30 AM	2269	72	0.2	13.2	3	232	7	13.2	3	324	1.5	13.7	2	647	224	92.7	136	47.5	0	56.1
	11:40 AM	2272	69	0.25	13.2	3	260	6	13.2	3	301	1.3	13.7	2	604	187	93.7	135	55.2	0	55
	12:45 PM	2273	78	0.25	13.2	3	258	6	13.2	3	298	1.3	13.2	3	589	276	98.3	111	56.9	0	61.6
3/19/2008	7:30 AM	2310	66	0.35	14.2	1	320	5.7	14.2	1	305	1.35	14.2	1	629	162	96.2	114	77	30.5	61
	10:50 AM	2313	62	0.35	13.7	2	316	6.1	13.7	2	311	1.4	11.8	6	584	93.8	100	72.3	69.5	33.1	64.5
	2:30 PM	2317	75	0.3	13.2	3	284	7	13.2	3	323	1.35	12.0	5.5	573	62.5	96.3	48.1	63.7	42.2	58.9

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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _s ¹ (ft ³ /min)	Well Field		Influent		MID GAC	
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
3/26/2008	9:20 AM	2351	70	0.28	14.0	1.3	284	6	14.1	1.3	310	1.5	12.2	5	613	103	95	73.4	69.3	35.2	56
	10:20 AM	2352	70	0.3	14.0	1.5	293	5.4	14.2	1.1	295	1.5	11.8	6	600	43.8	96.7	31.1	68.4	29.4	55.9
	11:45 AM	2353.4	74	0.35	14.0	1.3	316	5.4	14.2	1.1	294	1.5	10.8	8	573	25.6	80.5	22.7	63.5	19.3	53.4
	1:45 PM	2354.4	77	0.35	14.0	1.3	315	5.4	14.2	1.1	293	1.5	10.8	8	571	23.1	NM	20.1	NM	19.9	NM
	2:35 PM	2355.4	77	0.3	13.9	1.6	290	6	14.0	1.3	308	1.5	11.8	6	597	32.5	72.6	21.8	55.2	16.4	21
	3:13 PM	2356.0	76	0.3	13.9	1.6	290	6	14.0	1.3	308	1.5	11.8	6	597	32.8	NM	21.4	NM	15.8	NM
4/21/2008	12:30 PM	2453	68	0.3	13.8	1.8	292	7	14.0	1.5	334	1.5	11.8	6	602	116	100	95.1	62.1	75.5	53.7
6/13/2008	9:15 AM	2613	78	0.33	13.9	1.7	304	6.2	14.0	1.4	312	1.35	11.3	7	553	133	62.3	102	41.6	86.2	35.7
	11:10 AM	2615	83	0.33	13.9	1.7	302	7.5	14.0	1.3	342	1.35	10.8	8	539	130	51.8	91.5	34.5	71.3	35.6
6/17/2008	10:30 AM	NM	NM	NM	NM	NM	388	NM	NM	NM	164	NM	NM	NM	601	NM	NM	NM	NM	NM	NM
6/24/2008	8:15 AM	2768	81	0.55	13.7	2.0	389	3.9	13.8	1.8	245	1.5	11.3	7	582	170	94.5	159	63.8	115	67.4
	9:30 AM	2770	81	0.55	13.7	2.0	389	3.9	13.8	1.8	245	1.5	11.3	7	582	185	NM	160	NM	274	NM
	9:45 AM	Shut Down SVE System due to high field concentrations and perform carbon change-out																			
7/2/2008		2770	Start Up SVE System																		
	8:30 AM	2770	92.7	0.35	14.0	1.4	310	5.2	14.1	1.2	283	1.3	12.7	4	570	180	88.3	125	45.5	83	49.1
	12:50 PM	2774	103.7	0.35	14.0	1.3	307	5.2	14.1	1.2	280	1.3	10.3	9	507	11	46.3	86.9	30.4	54.8	45.5
7/16/2008	7:45 AM	2924	80	0.4	13.9	1.5	335	4.7	14.0	1.3	272	1.25	12.0	5.5	549	191	96.5	139	66.3	84.4	58.2
	11:55 AM	2928	96	0.35	14.0	1.5	309	4.5	14.0	1.3	262	1.25	10.8	8	512	145	55.3	102	42.9	138	60.4
	3:00 PM	2931	98	0.37	14.0	1.5	317	4.5	14.1	1.3	262	1.25	10.5	8.5	506	368	45.4	262	37.8	340	60.5
	4:00 PM	2932	95	0.5	13.8	1.8	368	5.4	13.9	1.5	286	1.65	10.0	9.5	569	392	NM	274	NM	305	NM
4:35 PM	Shut Down SVE System due to high field concentrations																				
10/21/2008	Carbon Change Out																				
10/27/2008	7:45 AM	2932	Start Up SVE System																		
	8:15 AM	2933	68.2	0.55	13.7	2.0	394	2.8	13.8	1.8	210	1.25	12.0	5.5	555	88	97.3	72	67.1	0	42.4
	9:15 AM	2934	75.6	0.6	13.7	2.1	408	3	13.7	1.9	215	1.45	11.3	7	575	60.1	93.9	52.1	59.5	0	43.3
	11:40 AM	2936	88.2	0.6	13.7	2.1	403	3	13.8	1.9	213	1.4	10.3	9	533	47	89.2	41	59.5	0	43.5
	1:30 PM	2938	94.7	0.4	13.7	2.1	327	2.8	13.8	1.9	205	1.4	10.3	9	530	42.3	64.2	35.2	42.1	0	42.4
	3:30 PM	2940	94.5	0.7	13.7	2.0	433	2.8	13.8	1.9	205	1.4	10.3	9	530	44.8	65.7	36.8	43.5	0	96.7
11/12/2008	7:30 AM	3058	70.6	0.5	13.7	2.1	373	3	13.7	2.0	216	1.3	12.0	5.5	564	1498	99.4	898	90	131	89.3
	1:00 PM	3061	81.9	0	14.7	0.0	0	NA	13.0	3.4	NA	1.6	9.8	10	560	2.5	20.5	4.8	20.7	87.2	77.3
	2:00 PM	3062	80.3	0	14.7	0.0	0	NA	13.0	3.4	NA	1.6	9.8	10	561	0.4	20	2.6	20.7	82.5	77.9
	3:55 PM	3064	77.2	0.45	13.7	2.1	352	NA	14.0	1.5	NA	2.5	10.3	9	720	253	90.1	124	47.9	72.8	80.3
11/13/2008	12:25 PM	3072	82.6	0	14.7	0.0	0	NA	12.7	4.0	NA	1.8	9.1	11.5	570	0.8	15.4	2.6	16.7	61.8	74.5
	2:00 PM	3074	84.4	0.25	14.0	1.4	264	7.2	14.2	1.1	336	1.3	11.5	6.5	546	538	97.7	334	54.8	145	87.3
	3:30 PM	3075	80.5	0.25	14.0	1.4	265	7	14.2	1.0	333	1.3	11.8	6	554	554	98.9	345	55.3	136	86.3
1/14/2009	7:30 AM	3240	56	0.25	13.8	1.8	269	8.5	14.0	1.4	373	1.5	12.5	4.5	627	42.1	98.6	30.4	64.1	0.2	57.2
	9:30 AM	3241	61	0.25	13.8	1.8	268	9	14.0	1.5	382	1.5	11.8	6	606	36.1	100	27.2	75.9	0.8	59.9
	11:35 AM	3244	73	0.35	13.6	2.2	311	7	13.8	1.8	331	1.5	11.3	7	586	24.8	99.3	23.8	59.5	1.4	63.6
1/20/2009	10:15 AM	3309	69.1	0.3	13.6	2.2	289	6.8	13.8	1.8	327	1.5	11.3	7	588	50	99.2	31	62.2	4.9	67
	11:15 AM	3310	71.6	0.3	13.7	2.1	289	6.8	13.8	1.8	326	1.4	11.5	6.5	573	37.6	99.1	27.1	59.4	4.8	68.8

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																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
3/25/2009	1:30 PM	3452	73	0.26	13.8	1.8	270	8.4	13.9	1.5	364	1.5	11.3	7	586	46.7	99.4	30.9	81.1	11.6	58.4
	4:30 PM	3455	76	0.26	14.0	1.5	271	8.1	13.8	1.8	355	1.5	11.3	7	584	57	99.4	41.4	56.3	14	60.7
4/6/2009	2:30 PM	3599	76	0.255	13.8	1.8	267	8.2	13.9	1.5	359	1.5	10.8	8	572	32.2	97.1	25.2	49.9	34.2	69.7
	4:30 PM	<i>Shut Down SVE System due to high field concentrations</i>																			
4/16/2009	9:00 AM	<i>Carbon Change Out</i>																			
	1:45 PM	3602	<i>Start Up SVE System</i>																		
	2:30 PM	3602	68	0	14.7	0	0	NA	NA	NA	NA	1.4	10.5	8.5	550	NM	NM	0.8	15.8	0.8	55.6
	3:45 PM	3603	82	0.4	13.5	2.4	329	7	13.7	2.0	327	1.6	11.0	7.5	594	32.2	100	26.6	64.5	0	74.4
5/7/2009	8:45 AM	3770	75	0.37	13.6	2.2	319	6.4	13.8	1.9	315	1.55	10.8	8	582	43.6	97.6	34.7	58.3	0.6	60.9
6/18/2009	12:55 PM	3934	93.6	0.42	13.7	2.0	336	6.2	13.8	1.8	305	1.6	10.3	9	567	35.8	63.8	29.5	46.7	0	54.3
	5:50 PM	3938	94	0.45	13.8	1.9	348	5.8	13.9	1.7	296	1.6	10.5	8.5	574	22.3	77.4	15.9	53.6	0	57.3
7/9/2009	10:30 AM	4104	93.8	0.47	13.7	1.9	356	5.6	13.9	1.7	291	1.7	10.3	9	585	50	69.3	47	49	0	47.2
7/16/2009	11:10 AM	4178	94.7	0.5	13.7	2.0	366	5.6	13.8	1.8	290	1.75	9.5	10.5	571	62.6	60.2	51.5	41.7	0	44
	2:45 PM	4181	99.5	0.47	13.8	1.9	354	5.5	13.9	1.7	287	1.7	9.5	10.5	561	86.5	45	70.7	39	0	42.6
7/22/2009	7:45 AM	4316	86.2	0.45	13.7	2.1	350	6	13.8	1.8	302	1.6	10.5	8.5	578	56.2	96.6	41.7	59.5	0.6	51.4
8/10/2009	8:15 AM	4481	80.1	0.46	13.7	2.1	355	6	13.8	1.8	304	1.65	11.3	7	611	60.3	95.1	45.3	70.8	5	55.7
8/21/2009	9:10 AM	4645	81.4	0.44	13.7	2.1	347	6.2	13.8	1.8	309	1.7	10.8	8	605	NA	96.5	59.8	62.4	18	57.1
8/24/2009	12:00 PM	4649	93.1	0.45	13.7	2.1	347	6	13.8	1.8	300	1.5	10.3	9	550	42.9	89.4	37.5	56.4	14.4	61
9/14/2009	<i>Carbon Change Out</i>																				
9/16/2009	12:20 PM	4661	106	0.47	13.7	2.1	351	6	13.8	1.8	297	1.4	10.3	9	525	63.1	84.2	41.4	52.9	3	64.2
9/30/2009	1:30 PM	4813	90.5	0.44	13.7	2.1	344	6.2	13.8	1.9	306	1.7	11.3	7	614	95.3	100	56.2	75.3	18.1	76
10/20/2009	1:20 PM	4916	83.9	0.44	13.6	2.2	346	6.3	13.8	1.9	310	1.75	10.8	8	613	64	100	50.5	71.5	23.5	84.6
11/4/2009	8:45 AM	5058	68.6	0.15	12.9	3.8	199	10.5	13.1	3.2	396	1.6	10.8	8	594	208	96.2	114	49.1	0.8	51.4
11/25/2009	7:45 AM	5221	63.2	0.2	12.9	3.7	231	10.5	13.1	3.2	399	1.6	11.3	7	611	61	99.2	44.3	56.6	1.9	57.5
12/29/2009	1:50 PM	5351	60.7	0.18	12.9	3.8	219	10.5	13.1	3.2	399	1.4	11.3	7	573	105	100	33.2	64	16.6	72.6
1/5/2010	1:00 PM	5360	68.4	0.19	12.8	3.8	224	10.5	13.1	3.2	396	1.65	10.8	8	604	47.4	100	30	50.5	11.8	69.4
3/25/2010	3:30 PM	5521	72.6	0.16	12.8	3.8	204	10.3	13.1	3.3	391	1.6	10.8	8	592	65	100	49.5	64.3	14.3	59.9

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Date	Time	Hour Meter	Temp (°F)	Well Field Differential Pressure (inches of H ₂ O)	Well Field Static Pressure (psia)	Well Field Vacuum (in Hg)	Q _w (ft ³ /min)	Dilution Differential Pressure (inches of H ₂ O)	Dilution Static Pressure (psia)	Dilution Vacuum (in Hg)	Q _D (ft ³ /min)	System Differential Pressure (inches of H ₂ O)	System Static Pressure (psia)	System Vacuum (in Hg)	Q _S ¹ (ft ³ /min)	Well Field		Influent		MID GAC	
																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
5/14/2010	12:45 PM	5692	85.3	0.18	12.8	3.8	214	10.5	13.1	3.2	390	1.6	10.0	9.5	565	44	93.5	31.3	56.7	7.4	51.7
6/21/2010	10:00 AM	5850	85.1	0.2	12.9	3.6	227	10	13.1	3.2	381	NA	10.5	8.5	608	38.4	98.1	22.8	57.2	2.1	47.8
7/16/2010	11:30 AM	5979	95.2	0.19	12.9	3.6	219	10.1	13.1	3.2	380	NA	9.5	10.5	599	39.4	65.6	27.7	41.7	19.8	28.8
8/13/2010	11:30 AM	6123	100.3	0.42	13.7	2.1	333	6	13.8	1.8	299	NA	9.8	10	632	61.2	74.9	52.8	51.3	32	49.8
	2:50 PM	6126	101.9	0.42	13.7	2.1	333	6	13.8	1.8	298	NA	9.8	10	631	79	63.2	69	43.1	35	48.2
	3:30 PM	6127	NM	0.6	NM	NM	NA	3.45	NM	NM	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/27/2010	11:20 AM	6239	98.3	0.62	13.5	2.4	404	3.22	13.6	2.2	218	NM	9.8	10	621	66.8	89.3	52.0	67.7	36.0	50.8
9/24/2010	11:25 AM	6399	94.7	0.63	13.5	2.4	408	3.6	13.6	2.3	231	NM	9.8	10	638	64.3	88.5	53.4	62.1	41.9	71.1
	1:25 PM	6401	<i>Shut Down SVE System due to high field concentrations</i>																		
4/15/2011	7:40 AM	<i>Carbon Change Out</i>																			
5/11/2011	11:00 AM	6402	84.1	0.57	13.4	2.6	391	3.4	13.5	2.5	225	1.6	11.0	7.5	593	103.6	100	69.0	82.4	18.0	78
	1:45 PM	6404	97	0.39	13.7	2.1	322	7	13.8	1.8	324	1.7	10.8	8	597	71.4	100	48.2	70.7	16.0	74
7/20/2011	8:30 AM	19416	79.6	0.37	13.5	2.4	317	6.7	13.6	2.2	319	1.35	10.0	9.5	522	93.4	98.6	66.0	60.5	2.7	56
7/25/2011	10:20 AM	19536	96.5	0.35	13.5	2.4	304	6.5	13.7	2.1	311	1.6	10.3	9	566	85.7	94.5	74.7	58.4	18.7	61.5
8/3/2011	4:30 PM	19727	92.3	0.25	NA	NA	NA	NA	NA	NA	NA	1.4	9.3	11	505	53	64.9	54.0	65	32.5	80.8
8/10/2011	9:30 AM	19874	80.3	0.3	13.7	2.1	287	8.4	13.8	1.8	360	1.6	11.3	7	601	88.2	99.5	58.8	71.6	20.0	62.8
8/18/2011	12:15 PM	20064	92.3	0.3	13.7	2.1	284	8.2	13.8	1.8	352	1.5	9.5	10.5	530	85.3	90.1	52.4	48.5	0.0	53.6
8/24/2011	8:30 AM	20202	83.2	0.3	13.7	2.1	286	8.6	13.8	1.8	363	NA	9.8	10	649	30	98	47.1	52.3	4.3	54.5
	11:00 AM	20205	90.1	0.3	13.7	2.1	284	8.2	13.8	1.8	353	NA	9.3	11	637	65	92.5	53.2	49.8	7.9	55
8/31/2011	10:40 AM	20368	91.1	0.3	13.7	2.1	284	8.4	13.8	1.8	356	NA	9.8	10	640	40.3	100	50.1	64	17.3	54.4
9/8/2011	7:30 AM	20554	78.8	0.5	13.2	3.0	365	8.4	13.4	2.7	355	3.9	10.0	9.5	887	56.4	100	53.5	81.6	17.2	55.5
	11:30 AM	20558	95.2	0.65	13.5	2.4	414	6.8	13.6	2.2	317	4.2	7.8	14	801	199	NM	163.0	87.2	61.0	58.9
9/13/2011	9:00 AM	20673	81.2	0.67	13.5	2.4	426	6.8	13.6	2.3	321	3.7	8.8	12	808	85.9	100	79.0	84.7	122.9	86.6
10/6/2011	12:45 PM	20677	85	0.7	13.5	2.4	434	6.8	13.6	2.2	320	2	10.8	8	655	97.3	100	76.0	80.7	25.5	89.3
10/14/2011	9:20 AM	20720	92.5	0.7	13.5	2.4	431	6.5	13.6	2.2	311	2.15	9.8	10	643	688	100	555.0	91.1	287.0	89.1
10/20/2011	10:00 AM	20814	69.8	0.7	13.5	2.4	440	6.8	13.6	2.2	325	2.1	10.8	8	680	1303.19	98.6	708.4	91.6	432.1	90.9

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																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
10/27/2011	11:00 AM	20876	68.4	0.68	13.5	2.4	434	6.8	13.6	2.2	325	2.2	10.0	9.5	673	1336.6	100	735.1	94	382.3	85.3
11/3/2011	2:00 PM	20922	76.5	0.7	13.5	2.4	437	6.8	13.6	2.2	323	2.15	10.0	9.5	660	928.94	100	642.9	93.5	472.2	94.4
11/10/2011	10:30 AM	20951	64.6	0.7	13.5	2.5	441	6.7	13.6	2.2	324	2.2	10.8	8	700	1563	97.6	1136.1	76.3	935.6	100
11/17/2011	8:30 AM	20989	66.8	0.75	13.5	2.4	457	7.8	13.6	2.2	349	2.25	10.3	9	690	1263	100	781.9	98.1	735.1	91.6
11/29/2011	9:45 AM	21024	66.2	0.7	13.5	2.4	441	6.8	13.6	2.3	325	2.3	10.3	9	698	1182.9	100	715.1	89.8	483.2	88
12/7/2011	7:30 AM	21062	53.6	0.7	13.5	2.5	446	7	13.5	2.4	334	2.2	11.3	7	723	889	100	828.0	92.3	477.0	90.4
12/13/2011	12:00 PM	21086	53.6	0.65	13.5	2.5	430	6.8	13.7	2.1	330	2.1	11.3	7	706	1047	100	996.0	94.1	503.0	92.7
12/20/2011	12:45 PM	21106	60.1	0.7	13.4	2.6	443	7	13.7	2.1	333	2.2	11.0	7.5	711	974	100	883.0	61.4	859.0	92.4
12/27/2011	2:45 PM	21132	66.4	0.7	13.4	2.6	440	6.9	13.7	2.0	329	2.1	11.0	7.5	690	1004	100	912.0	94.7	883.0	91.7
1/3/2012	4:00 PM	21159	66.4	0.7	13.4	2.6	439	7	13.7	2.1	331	2.1	11.0	7.5	690	996	100	914.0	96.4	891.0	92.7
1/10/2012	2:00 PM	21198	90	0.7	13.4	2.6	430	6.9	13.7	2.1	322	2.1	11.3	7	683	1003	100	981.0	93.2	556.0	92.6
1/17/2012	6:30 AM	21230	60.4	0.65	13.3	2.9	424	6.9	13.6	2.2	330	2.1	11.8	6	717	1126	100	1004.0	100	633.0	94.6
1/27/2012	10:00 AM	21251	67.3	0.7	13.3	2.9	437	7	13.7	2.1	331	2	11.5	6.5	688	1044	100	996.0	92.7	713.0	86.8
1/31/2012	2:00 PM	21348	74.2	0.7	13.3	2.9	434	6.8	13.6	2.2	323	1.8	10.3	9	613	1156	100	938.0	72.9	691.0	86.6
2/7/2012	10:00 AM	21382	70.3	0.675	13.2	3.0	427	6.9	13.6	2.3	326	2	10.8	8	664	991	100	873.0	96.7	704.0	92.4
2/14/2012	1:30 PM	21411	63.2	0.575	13.6	2.2	403	9	13.8	1.9	378	2.4	11.3	7	748	916	100	855.0	81.6	818.0	90.1
2/21/2012	2:00 PM	21442	70.1	0.6	13.5	2.4	408	8.9	13.7	2.1	372	2.4	11.5	6.5	751	978	100	923.0	93.7	884.0	90.4
2/28/2012	12:00 PM	21502	71.3	0.65	13.5	2.5	423	9	13.5	2.4	372	2.4	11.3	7	743	1116	100	1004.0	96.6	821.0	89.8
3/6/2012	11:00 AM	21536	68.6	0.7	13.5	2.4	441	8.8	13.6	2.2	370	2.3	11.3	7	729	913	100	851.0	100	796.0	91.3
3/13/2012	9:30 AM	21565	67.6	0.7	13.5	2.5	440	8.8	13.6	2.3	370	2.2	11.3	7	713	1004	100	921.0	96.7	734.0	90.4
3/20/2012	1:00 PM	21609	-	0.69	13.5	2.5	-	8.9	13.5	2.4	-	2.3	11.0	7.5	-	1112	100	903.0	80.6	691.0	100
3/27/2012	2:00 PM	21644	-	0.7	13.6	2.2	-	8.8	13.8	1.9	-	2.2	11.3	7	-	1044	100	922.0	83.8	556.0	100
4/3/2012	2:45 PM	21699	64.1	0.6	13.7	2.1	412	8.8	13.8	1.9	373	2.2	11.5	6.5	724	1126	100	976.0	100	471.0	100
4/10/2012	6:00 PM	21755	66.4	0.65	13.5	2.4	426	8.9	13.7	2.0	374	2.1	11.3	7	698	997	100	883.0	92.4	606.0	100
4/17/2012	3:30 PM	21788	71.6	0.575	13.5	2.5	397	9	13.7	2.1	374	2.1	11.3	7	694	1134	100	971.0	100	607.0	100
4/24/2012	1:00 PM	21873	71.9	0.625	13.4	2.6	413	8.9	13.6	2.2	371	2.1	11.3	7	694	1054	100	876.0	90.6	558.0	100

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																Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %
5/1/2012	3:00 PM	21925	79.2	0.575	13.4	2.6	394	8.9	13.6	2.3	368	2.1	11.0	7.5	682	1104	100	996.0	97.6	633.0	100
5/8/2012	1:30 PM	21990	77.3	0.6	13.6	2.2	406	9	13.5	2.5	369	2	9.8	10	628	1217	100	1104.0	90.7	773.0	91.4
5/15/2012	1:30 PM	22099	76.4	0.65	13.5	2.4	422	8.9	13.4	2.6	367	2.1	10.3	9	660	1047	100	999.0	89.4	664.0	94.6
5/22/2012	12:30 PM	22176	93.1	0.6	13.6	2.3	400	8.9	13.4	2.6	361	2.3	9.3	11	647	302	55.6	266.0	40	214.0	67.4
5/29/2012	1:00 PM	22230	82.1	0.05	12.3	4.9	111	10	12.9	3.8	378	1.1	9.8	10	464	271	91.6	56.0	23.6	31.0	37.5
5/29/2012	1:00 PM	-	84	0.175	12.7	4.0	211	10	13.1	3.3	381	2.3	9.3	11	653	526	89.9	403.0	24.7	201.0	38.6
6/5/2012	1:00 PM	22317	76.8	0.75	12.5	4.4	436	10	13.0	3.5	382	1.1	9.8	10	466	2098	90.1	521.0	37.4	314.0	49.8
6/11/2012	12:30 PM	22361	76.3	0.1	12.5	4.4	159	10	12.9	3.7	381	1.1	10.3	9	478	1981	91.4	613.0	31.8	294.0	44.6
6/19/2012	3:00 PM	22451	73.8	0.125	12.5	4.6	178	10	12.7	4.1	378	1.1	10.0	9.5	473	2224	90.7	673.0	27.4	596.0	40.1
6/26/2012	12:30 PM	22526	95.8	0.15	12.5	4.4	191	10	13.5	2.4	383	1.9	8.8	12	571	2116	84.9	910.0	41.1	1175.0	44.4

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
5/12/2006	6:30 AM											Start Up SVE System
	12:30 PM	300	31	NM	NM	62	NM	ALL	0	40	100	Instrument calibrated to 100 pm of hexane
	1:00 PM											Shut SVE System Down
5/22/2006	8:30 AM											Start Up SVE System
	9:30 AM	0	102	0	NM	0	NM	ALL	60	50	100	
	12:00 PM											Shut SVE System Down
6/14/06	8:35 AM											Start Up SVE System
	10:30 AM	0	30	0	NM	0	NM	1A,2,3,4,5,6,7	100	40	40	Lab samples taken
	11:50 AM											Shut SVE System Down
7/6/2006	8:15 AM											Start Up SVE System
	9:00 AM	NM	41	NM	NM	NM	NM	ALL	0	100	50	Lab samples taken from each well
	12:30 PM	0	28	0	NM	0	NM	1A,2,4,6	100	35	50	Lab samples taken from system
8/22/2006	1:00 PM											Shut SVE System Down
	8:50 AM											Start Up SVE System
	9:00 AM	NM	29	NM	NM	NM	NM	ALL	0			
	9:20 AM	NM	NM	NM	NM	NM	NM	ALL	0			
	9:40 AM	NM	NM	NM	NM	NM	NM	ALL	0			Changed Variable Speed Set Control Point
2/12/2007	10:00 AM	NM	28	NM	NM	NM	NM	ALL	100			Changed Variable Speed Set Control Point to 100%
	10:20 AM											Shut SVE System Down
	9:30 AM											Start Up SVE System
	10:30 AM	0	31	0	NM	0	NM	ALL	100	100	100	
2/23/2007	12:00 PM	0	NM	0	NM	0	NM	ALL	50	100	100	
	1:00 PM											Shut SVE System Down
	8:30 AM											Start Up SVE System
	9:30 AM	0	34	0	NM	0	NM	ALL	50	100	100	
	10:45 AM	NM	NM	NM	NM	NM	NM	ALL	100	100	100	
	2:30 PM	8.1	34	12.6	NM	0	NM	1A, 2, 4, 5, 6, 8, 9	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
	2:50 PM	1.5	NM	5.1	NM	0	NM	1A, 2, 4, 5, 6, 8, 9	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
3:45 PM	0	NM	3.3	NM	0	NM	1A, 2, 4, 5, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)	
2/26/2007	4:45 PM	NM	36	NM	NM	0	NM	1A, 2, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
	8:00 AM	15	41	14.1	NM	0	NM	1A, 2, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
	1:00 PM	16.5	39	9.9	NM	0	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
	1:30 PM	NM	NM	NM	NM	NM	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
2/28/2007	2:40 PM											Shut SVE System Down
	9:40 AM											Start Up SVE System
	10:00 AM	17.9	39	16.5	NM	0	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O) & Using a new PID
	12:15 PM	13.6	39	7.4	NM	0	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O) & Using a new PID
	2:00 PM	1.5	NM	5.5	NM	0	NM	4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O) & Using a new PID/ Attached a larger scale dilution magnehelic gauge on 3/19/08
	3:00 PM	7.2	39	2.2	NM	0	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O) & Using a new PID
3/1/2007	3:40 PM	NM	NM	2.4	NM	NM	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O) & Using a new PID
	8:15 AM	14	41	9.2	NM	0.4	NM	1A, 4, 6	100	100	100	taken for all 6 sample locations
	10:30 AM	NM	41	NM	NM	NM	NM	1A, 4, 6	100	100	100	Dilution Gauge is Maxed Out (assume 10 in H2O)
	10:55 AM											Shut SVE System Down

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
3/29/2007	9:10 AM											Installed new Dilution Air Filter (1100 cfm), Dilution Flow Magnehelic Gauge, and emptied Knockout Pot(approx 40 gallons)
	9:25 AM	NM	39	NM	NM	NM	NM	NONE	100	0	100	Running on dilution air only
	10:45 AM	NM	35	NM	NM	NM	NM	NONE	100	0	100	Running on dilution air only
4/2/2007	8:15 AM	7.5	24	5.8	NM	0	NM	NONE	100	0	100	Running on dilution air only
	10:30 AM	1.2	23	1.6	NM	0	NM	4,6	100	25	100	PID Stopped working at 10:45 AM
4/3/2007	11:35 AM	5.1	24	6.6	NM	0.2	NM	4,6	100	25	100	
	12:00 PM	2.1	NM	2.4	NM	NM	NM	4,6	100	25	100	
	1:00 PM	0.9	24	0.6	NM	0	NM	4,6	100	25	100	
4/6/2007	7:20 AM	1.4	32	2.3	NM	0.1	NM	4,6	100	25	100	
	8:20 AM	0.4	NM	0.5	NM	0	NM	4,6	100	25	100	
	9:40 AM	0	29	0	NM	0	NM	4,6	100	25	100	
	11:00 AM	0	NM	0	NM	0	NM	4,6	100	25	100	
4/9/2007	7:50 AM	0.9	35	1.1	NM	0	NM	4,6	100	25	100	
	9:15 AM	0.2	NM	0.5	NM	0	NM	4,6	100	25	100	
	11:05 AM	0	31	0	NM	0	NM	4,6	100	30	100	
	2:15 PM	0	31	0	NM	0	NM	1A,4,6	100	30	100	
	3:40 PM	0	31	0	NM	0	NM	1A,4,6	100	30	100	
4/11/2007	4:45 PM	0	31	0.2	NM	0	NM	1A,4,6	100	30	100	
	7:45 AM	0	25	0.1	NM	0	NM	1A,4,6	100	30	100	
	9:45 AM	0	24	0	NM	0	NM	1A,4,6	100	30	100	
4/13/2007	11:15 AM	0	NM	0	NM	0	NM	1A,4,6	100	30	100	
	7:40 AM	0	28	0	NM	0	NM	1A,4,6	100	30	100	
	9:15 AM	0	27	0	NM	0	NM	1A,4,6	100	30	100	
4/16/2007	10:30 AM	0	27	0	NM	0	NM	1A,4,6	100	30	100	
	7:40 AM	0	32	0.1	NM	0	NM	1A,4,6	100	30	100	
	9:20 AM	0	29	0	NM	0	NM	1A,4,6	100	30	100	
4/19/2007	10:50 AM	0	29	0	NM	0	NM	1A,4,6	100	30	100	
	3:00 PM	NM	30	NM	NM	NM	NM	1A,4,6	0	30	100	
	3:20 PM	0	30	0	NM	0	NM	1A,4,6	100	30	100	
4/21/2007	5:00 PM	0	32	0	NM	0	NM	1A,4,6	100	30	100	System turned off for a while to set alarm points
	11:00 AM											Shut SVE System Down to comply with permit visits every 3 days
4/24/2007	8:30 AM											Start Up SVE System
	2:25 PM	0	28	0	NM	0	NM	1A,4,6	100	30	100	
	5:00 PM	0	30	0	NM	0	NM	1A,4,6	100	30	100	
4/26/2007	2:00 PM	0.1	27	0.2	NM	0	NM	1A,4,6	100	30	100	
	3:40 PM	0	NM	0	NM	0	NM	1A,4,6	100	30	100	
	4:35 PM	NM	29	NM	NM	NM	NM	1A,4,6	100	30	90	Variable Speed Control Set Point was changed to 90%
4/28/2007	10:30 AM											Shut SVE System Down to comply with permit visits every 3 days
	6:00 AM											Start Up SVE System
5/1/2007	7:35 AM	NM	27	NM	NM	NM	NM	1A,4,6	100	30	90	
	8:10 AM	0	28	0	NM	0	NM	1A,4,6	100	30	90	
	9:45 AM	0	26	0	NM	0	NM	1A,4,6	100	30	90	
	10:50 AM	0	25	0	NM	0	NM	1A,4,6	100	30	90	
5/4/2007	9:45 AM	0	31	0	NM	0	NM	1A,4,6	95	30	90	
	10:45 AM	0	NM	0	NM	0	NM	1A,4,6	95	30	90	
	11:50 AM	NM	NM	NM	NM	NM	NM	1A,4,6	95	35	90	
	12:30 PM	NM	33	NM	NM	NM	NM	1A,4,6	95	37	90	
	1:40 PM	0	33	0	NM	0	NM	1A,4,6	95	37	90	
	2:45 PM	NM	NM	NM	NM	NM	NM	1A,4,6	95	37	90	

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		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
5/7/2007	9:35 AM	0	31	0	NM	0	NM	1A,4,6	95	37	90	
	11:00 AM	0	NM	0	NM	0	NM	1A,4,6	95	37	90	
	12:05 PM	NM	NM	NM	NM	NM	NM	1A,4,6	95	37	90	Purging of the well lines
	1:45 PM	0	30	0	NM	0	NM	1A,4,6	95	37	90	
5/10/2007	10:45 AM	0	25	0	NM	0	NM	1A,4,6	95	37	90	
	11:45 AM	0	NM	0	NM	0	NM	1A,4,6	95	37	90	
	1:15 PM	0	24	0	NM	0	NM	1A,4,6	95	37	90	
	3:00 PM											Shut SVE System Down to reboot system (TBOX working improperly)
	3:05 PM											Start Up SVE System
5/18/2007	9:15 AM	0	36	0	NM	0	NM	1A,4,6	100	37	90	
	10:40 AM	0	NM	0	NM	0	NM	1A,4,6	100	37	90	
	1:45 PM	0	NM	0	NM	0	NM	1A,4,6	100	40	90	
	2:45 PM	0	34	0	NM	0	NM	1A,4,6	100	40	90	
	3:00 PM	NM	NM	NM	NM	NM	NM	1A,4,6	100	37	90	
5/24/2007	12:00 PM	0	34	0.8	NM	0	NM	1A,4,6	100	37	90	
	1:00 PM	0	NM	0	NM	0	NM	1A,4,6	100	37	90	
	1:30 PM	NM	NM	NM	NM	NM	NM	1A,4,6	100	40	90	
	3:05 PM	0	34	0	NM	0	NM	1A,4,6	100	40	90	
	4:05 PM	0	NM	0	NM	0	NM	1A,4,6	100	40	90	
5/30/2007	9:15 AM	1.9	40	1.4	NM	0.2	NM	1A,4,6	100	40	90	
	10:30 AM	1.7	39	1.7	NM	0.2	NM	1A,4,6	100	40	90	
	11:45 AM	1.4	NM	2.2	NM	0.2	NM	1A,4,6	100	40	90	
	12:00 PM	NM	NM	NM	NM	NM	NM	1A,4,6	100	30	90	
	2:00 PM	1.2	36	1.7	NM	0	NM	1A,4,6	100	30	90	
	3:00 PM	0.7	NM	0.9	NM	0	NM	1A,4,6	100	30	90	
6/7/2007	9:45 AM	4.5	37	4.3	NM	2.3	NM	1A,4,6	100	30	90	
	10:45 AM	6	31	6.4	NM	3	NM	1A,4,6	100	30	90	
	12:45 PM	5.3	NM	5.1	NM	2.9	NM	1A,4,6	100	30	90	
	2:00 PM											Shut down SVE system due an high concentrations
11/5/2007	8:54 AM											
	10:05 AM	0	25.1	0	62	0	51.6	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	60	
	2:35 PM	0	32.5	0	70	0	66	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	70	
11/6/2007	7:46 AM	0	33.5	0	59.9	0	60.3	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	70	
	12:00 PM	0	39.2	0	61.3	0	56.9	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	70	
	12:45 PM											
	1:05 PM											
	2:15 PM	0	39.2	0	61.6	0	67.5	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	70	Lab Data collected
11/8/2007	9:00 AM	0	40.3	0	39.3	0	58.7	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	70	60 gallons remove from the Knock Out Pot
	10:30 AM											60 gallons remove from the Knock Out Pot
	11:00 AM											
	1:00 PM	0	45.1	0	50.1	0	NM	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	60	
	2:30 PM	0	52	0	58.4	0	68.5	2, 3, 4, 5, 6, 8, 9, 10, 11	0	100	60	
	4:40 PM	0.1	46.3	0	0.9	0	NM	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	55	

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		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
11/12/2007	10:30 AM											110 gallons remove from the Knock Out Pot
	1:10 PM											
	1:30 PM	0	45.8	0	50.1	0	43.3	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	55	
	3:20 PM	NM	46	NM	57.8	NM	51.7	2, 3, 4, 5, 6, 8, 9, 10, 11	100	0	100	
	4:00 PM	NM	NM	NM	NM	NM	NM	2, 3, 4, 5, 6, 8, 9, 10, 11	100	0	45	
11/13/2007	10:45 AM											
	11:15 AM											
	11:40 AM	0.5	40.6	0.1	41.1	0	34.3	2, 3, 4, 5, 6, 8, 9, 10, 11	100	0	45	
	1:45 PM	0	40.9	0	44.5	0	37.8	2, 3, 4, 5, 6, 8, 9, 10, 11	45	100	50	
11/15/2007	3:15 PM	0.9	49.1	0	50.6	0	45.3	2, 3, 4, 5, 6, 8, 9, 10, 11	45	100	50	
	9:30 AM	12.2	66.2	12	48.9	10.6	45.3	2, 3, 4, 5, 6, 8, 9, 10, 11	45	100	50	
	3:55 PM	25	83.1	23.6	65.1	24	67.9	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	65	
11/16/2007	7:45 AM	25.1	89.2	25	61.1	25	55.5	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	65	
	9:15 AM	21.1	82.3	20.7	59.5	20.8	48.4	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	100	
	10:15 AM											
12/6/2007	12:30 PM											60 gallons removed from the Knock Out Tank and 6 drums removed from site (330 gallons) on 12/4/07
	1:15 PM	27.9	84.9	26.1	65.7	24.2	51	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	100	
	2:15 PM	63	90.3	52	69	35.5	56.6	2, 3, 4, 5, 6, 8, 9, 10, 11	50	100	100	
	4:05 PM											
1/15/2008	8:00 AM											Carbon Change Out for both vessels
	4:20 PM											System Start Up
	5:20 PM	0	35.1	0	70.2	0	63.6	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	Trying to maintain an influent relative humidity of 50% or less
1/16/2008	9:30 AM	0	27.6	0	58.2	0	45.7	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	
	11:36 AM	0	27.6	0	58.2	0	45.7	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	Collect Lab Samples
1/21/2008	9:52 AM	0	53.8	0	57.4	0	60.3	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	System shutdown on 1/20/08, Approximately 110 gallons remove from the Knock Out Tank
	11:00 AM											For the granular activated carbon beds to be used more efficiently, the relative humidity of the influent vapor should not be above 50%. By mixing the well field vapor (approximately 100% relative humidity) with dilution air (relative humidity of ambient air), we are able to maintain a lower relative humidity at the influent. However, during humid days and nights (when relative humidity is ≥ 40%), the system will be shut down in order to maintain a relative humidity of < 50% at the influent. This
2/12/2008	11:00 AM	0	33.8	0	34.9	0	33.2	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	
	3:50 PM	0	37.8	0	50.5	0	39.9	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	55 gallons removed from the Knock Out Tank
2/13/2008	1:35 PM	0	33.8	0	34.9	0	33.2	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	
2/19/2008	8:54 AM	0	52.2	0	51.4	0	59.9	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	Collect Lab Samples/3 drums (165) gallons removed offsite on 2/19/08
3/10/2008	8:30 AM	0	50.3	0	47.7	0	55	2, 3, 4, 5, 6, 8, 9, 10, 11	75	45	63	55 gallons removed from Kock Out Tank
	11:40 AM	0	40.9	0	38.5	0	38.4	2, 3, 5, 7, 8, 9, 10, 11	75	45	63	Open SVE-7 and close SVE-4 and 6
	12:45 PM	0	48.2	0	42.9	0	35.1	2, 3, 5, 7, 8, 9, 10, 11	75	45	63	
3/19/2008	7:30 AM	0	57.2	0	61.3	0	79.4	2, 3, 5, 7, 8, 9, 10, 11	75	45	66	Increased VSC from 63% to 66% / Install new vacuum gauges for Dilution, Well Field, and System Lines
	10:50 AM	0	54.8	0	47.3	0	46.9	2, 3, 5, 7, 8, 9, 10, 11	75	45	66	
	2:30 PM	0	55.3	0	54.5	0	51.6	2, 3, 5, 7, 8, 9, 10, 11	75	45	66	

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		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
3/26/2008	9:20 AM	0	63	0	62.2	0	59.1	2, 3, 5, 7, 8, 9, 10, 11	75	45	66	
	10:20 AM	0	61.1	0	56.9	0	56.2	1A, 2, 3, 5, 7, 8, 9, 10, 11	75	45	66	Open SVE-1A
	11:45 AM	0	60.6	0	55.3	0	49.9	1A, 2, 3, 5, 7, 8, 9, 10, 11	75	45	66	
	1:45 PM	0	NM	0	NM	0	NM	1A, 2, 3, 5, 7, 8, 9, 10, 11	75	45	66	
	2:35 PM	0	62.5	0	59.1	0	53.8	1A, 2, 3, 5, 8, 9, 10, 11	75	45	66	Closed SVE-7
	3:13 PM	0	NM	0	NM	0	NM	1A, 2, 3, 5, 8, 9, 10, 11	75	45	66	
4/21/2008	12:30 PM	0	58.5	0	57.4	0	44.1	1A, 2, 3, 5, 8, 9, 10, 11	75	45	66	Collect Lab Samples
6/13/2008	9:15 AM	0	43.7	0	36.4	0	32.9	1A, 2, 3, 5, 8, 9, 10, 11	75	45	66	
	11:10 AM	0	42.2	0	38.1	0	31.6	1A, 2, 3, 5, 8, 9, 10, 11	75	45	66	
6/17/2008	10:30 AM	NM	NM	NM	NM	NM	NM	1A, 2, 3, 5, 8, 9, 10, 11	55	55	70	Changed System configuration to 55% Well Field, 55% Dilution, and 70% VCS
6/24/2008	8:15 AM	46.7	38.9	50.3	28.2	50.1	25.4	1A, 2, 3, 5, 8, 9, 10, 11	55	55	70	Collect Lab Samples and carbon change-out across primary bed was performed later in the day
	9:30 AM	78.4	NM	88.9	NM	92.7	NM	1A, 2, 3, 5, 8, 9, 10, 11	55	55	70	
	9:45 AM											
7/2/2008	8:30 AM	0.5	28.6	1	38.4	0	36.6	1A, 2, 3, 5, 8, 9, 10, 11	75	45	63	
	12:50 PM	4.4	30.7	3.1	41.3	0.2	33.5	1A, 2, 3, 5, 8, 9, 10, 11	75	45	63	
7/16/2008	7:45 AM	0	40.9	0	36.8	0	34.9	1A, 2, 3, 5, 8, 9, 10, 11	60	45	63	
	11:55 AM	0	41.2	0	49	0	43.6	1A, 2, 3, 5, 8, 9, 10, 11	60	45	63	Collect Lab Samples
	3:00 PM	0	40.7	0	51.4	0	41.8	1A, 2, 3, 5, 8, 9, 10, 11	60	45	63	
	4:00 PM	0	NM	NM	NM	NM	NM	1A, 2, 3, 5, 8, 9, 10, 11	60	45	75	System Shut Down @ 4:35 PM
	4:35 PM											
10/21/2008												
10/27/2008	7:45 AM											
	8:15 AM	0	30.1	0	40.7	0	43.7	1A, 2, 3, 5, 8, 9, 10, 11	60	45	63	system start-up at 7:45/ carbon change-out across primary bed on 10/21/08
	9:15 AM	0	30.4	0	36.6	0	35	1A, 2, 3, 5, 8, 9, 10, 11	60	45	67	Changed VSC to 67%
	11:40 AM	0	35	0	44.4	0	36.1	1A, 2, 3, 5, 8, 9, 10, 11	60	45	67	
	1:30 PM	0	34.5	0	48	0	40.7	1A, 2, 3, 5, 8, 9, 10, 11	60	45	67	
	3:30 PM	0	34.5	0	50	0	44.9	1A, 2, 3, 5, 8, 9, 10, 11	60	45	67	
11/12/2008	7:30 AM	0	41.8	0	40.8	0	39.2	1A, 2, 3, 5, 8, 9, 10, 11	60	45	63	System shutdown on 11/10/08, Empty KO pot (110 gallons) on 11/12/08 and restart system/remove 3 drums offsite
	1:00 PM	4.1	38.3	3.7	50.9	0	40.4	1A, 2, 3, 5, 8, 9, 10, 11	100	0	80	System restarted with 100% Dilution, 0% WF, and 80% VSC
	2:00 PM	0.5	37.7	0.6	47.2	0	44.7	NONE	100	0	80	Closed ALL wells
	3:55 PM	0.2	38.6	0	45.2	0	41.4	1A, 2, 3, 5, 8, 9, 10, 11	100	100	95	Re-open wells, open Wf and Dil to 100%, and VSC to 95%
11/13/2008	12:25 PM	1.2	36.5	4.2	37.1	0	33	NONE	100	0	90	Closed ALL wells, Close WF, and change VSC to 90%
	2:00 PM	0.9	40.6	0	40.2	0	36.1	1A, 2, 3, 5, 8	100	60	63	Re-open some wells, one WF to 60%, lower VSC to 63%
	3:30 PM	4.1	45	5.8	46.8	0	48.4	1A, 2, 3, 5, 8	100	60	63	
1/14/2009	7:30 AM	0	48.1	0	47.7	0	42.5	1A, 2, 3, 5, 8	75	60	67	KO pot was partially drained twice since November (approximately 65 gallons)
	9:30 AM	0	47.1	0	42.8	0	NM	1A, 2, 3, 5, 8	75	60	67	
	11:35 AM	0	51.7	0	46.8	0	39.2	1A, 2, 3, 5, 8	70	55	67	
1/20/2009	10:15 AM	0	56.7	0	54.5	0	49.9	1A, 3, 5, 8	70	55	67	SVE-2 was closed in December, VSC=67%, WF=55%, Dil=70% /KO pot was drained because KO alarm went off on 1/17/09 (120 gallons)
	11:15 AM	0	58.8	0	55.5	0	48.8	1A, 3, 5, 8	70	55	67	185 gallons removed off-site

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
3/25/2009	1:30 PM	0	59.3	0	62.1	0	55.6	1A,3, 5, 8	70	55	67	KO pot alarm on 1/30/09 (120 gallons)
	4:30 PM	0.4	63.7	0.1	68.3	0	62.9	1A,3, 5, 8,9(30%)	70	55	67	Oped SVE-9 to 30%
4/6/2009	2:30 PM	0	67.1	0	63.5	0	60.4	1A,3, 5, 8,9(30%)	70	55	67	Drained KO pot on 3/29/09 (120 gallons) Drained KO pot on 4/6/09 (approximately 35 gallons) / system shutdown
	4:30 PM											
4/16/2009	9:00 AM											
	1:45 PM											5 drums removed off site (275 gallons)
	2:30 PM	0.1	32.3	0	54.1	0	49	1A,3, 5, 8,9(30%)	100	0	70	
	3:45 PM	0	30.5	0	58.7	0	48.2	1A,3, 5, 8,9(30%)	70	55	70	
5/7/2009	8:45 AM	0	42	0	37.1	0	46	1A,3, 5, 8,9(30%),11(20%)	70	55	67	SVE-11 was discovered to be slightly open (not sure how long, but probably back to 11/13/08)Approximately 30 gallons removed from KO pot, disconnect humidity/temperature probe and send in for repair
6/18/2009	12:55 PM	0	47.8	0	55.4	0	38.6	1A,3, 5, 8,9(30%),11(20%)	70	55	67	
	5:50 PM	0	50.4	0	57.6	0	53.6	1A,2,3, 5, 8,9(30%),11(20%)	70	55	67	Open SVE-2
7/9/2009	10:30 AM	0	45.3	0	42.9	0	36.1	1A,2,3, 5, 8,9(30%),11(20%)	70	55	67	Open SVE-9 to 45% and SVE-11 to 40%
7/16/2009	11:10 AM	0	40.5	0	38.2	0	33	1A,2,3, 5, 8,9(30%),11(20%)	70	55	67	Unable to reconnect Temperature/Humidity Probe
	2:45 PM	0	42.5	0	39.6	0	36.2	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	Open SVE-9 and SVE-11 to 40%
7/22/2009	7:45 AM	0	47.1	0	40.7	0	34.2	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	Lab samples collected across the system
8/10/2009	8:15 AM	0	49.7	0	45.2	0	46.5	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	Still not able to install temperature/humidity probe
8/21/2009	9:10 AM	4.2	62.1	2.7	50.3	3.3	47.2	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	PID not working properly, system shut down at 10:40 AM
8/24/2009	12:00 PM	1.5	66.7	1.7	59.6	2.5	57	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	Samples taken at Post-Gac, Mid-PP, and Effluent / System shut down @4:00 PM
9/14/2009												
9/16/2009	12:20 PM	0	39.2	0	61.5	0	49.8	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	Carbon Change Out across the second carbon bed (it becomes the secondary carbon vessel). 25 gallons were removed from the KO pot.
9/30/2009	1:30 PM	0	45.6	0	49.1	0	41.9	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	30 gallons removed from KO pot
10/20/2009	1:20 PM	0	73.8	0	71.9	0	64.4	1A,2,3, 5, 8,9(40%),11(40%)	67	55	67	120 gallons removed on 10/5/09 (alarm went off), 25 gallons removed on 10/20/09, 200 gallons were removed in 4 drums from the site./ At the end of the day, the Well Field was closed to 30% and the Dilution was closed to 64% (this will help decrease humidity across the carbon.
11/4/2009	8:45 AM	0	46.9	0	45	0	40	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	Empty KO pot (100 gallons)
11/25/2009	7:45 AM	0	57.6	0	55.7	0	55.2	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	Empty KO pot on 11/12/09 (100 gallons), Empty KO pot on 11/18/09 (100 gallons), On 11/18/09, 6 drums (300 gallons) were removed from the site. 70 gallons removed from the KO pot on 11/25/09
12/29/2009	1:50 PM	1	65	0	63	0	55.1	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	95 gallons removed on 11/30/09 (3 full drums are onsite and 1 partially filled), 85 gallons removed 12/15/09 (5 filled drums), 80 gallons removed on 12/29/09 (6 full drums on site are removed by AIS-330 gallons.
1/5/2010	1:00 PM	0	66	0	65.6	0	53	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	30 gallons removed from KO pot
3/25/2010	3:30 PM	6.4	54.7	4.5	51.7	4.7	49.9	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	50 gallons were drained from the KO Pot on 2/15/10 and 60 gallons on 3/19/10. Samples collected across the system/System will remain off pending the results on 3/25/10.

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
5/14/2010	12:45 PM	0	50.4	0	49.9	0	35.4	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	60 gallons were drained from the KO pot on 4/20/10 and 15 gallons drained on 5/14/10.. Approximately 215 gallons onsite.
6/21/2010	10:00 AM	0	45.6	0	40.1	0	38.1	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	40 gallons drained from the KO pot on 5/29/10. Approximately 275 gallons (6 full drums) were removed offsite by AIS on 6/21/10
7/16/2010	11:30 AM	0	42.4	0	33.8	0	32.6	1A,2,3, 5, 8,9(40%),11(40%)	64	30	67	
8/13/2010	11:30 AM	0	37.3	0	41.8	0	36.9	1A,2,3, 5, 8,9(40%),11(40%)	70	55	67	
	2:50 PM	0.5	39.3	0	42.7	0	40.5	1A,2,3, 5, 8,9(100%),11(100%)	70	55	67	Opened SVE-9 and SVE-11 to 100% open
	3:30 PM	NM	NM	NM	NM	NM	NM	1A,2,3, 5, 8,9,11	50	70	67	Changed the Dilution and Well Field Percentage Open
8/27/2010	11:20 AM	0	53.3	0	46.5	0	39.2	1A,2,3, 5, 8,9,11	50	70	67	System was started at 0415 hours. Vapor samples collected from system and wells.
9/24/2010	11:25 AM	28.2	68.1	17.7	69.5	8.2	59.8	1A,2,3, 5, 8,9,11	50	70	67	Effluent sample was collected and system was shut down
	1:25 PM											
4/15/2011	7:40 AM											12 gallons of KO pot water in 1 drum, carbon changeout in first carbon bed. Carbon beds are reconfigured so that the first bed is the second.
5/11/2011	11:00 AM	0	34.3	0	56.3	0	57.1	1A,2,3, 5, 8,9,11	50	70	67	Turn system on at 10 AM after E&E helps with repairs, AIS removes 1 drum with 32 gallons of water, and bring 8 empty drums, change system configuration
	1:45 PM	0	39.7	0	71.3	0	61	1A,2,3, 5, 8,9,11	70	55	70	
7/20/2011	8:30 AM	0	40	0	35.1	0	31.8	1A,2,3, 5, 8,9,11	70	55	70	Experienced issues with the telemetry system. Once issues were resolved, the timer changed values. 6406 hrs= 19369 hrs. Start operating system full time
7/25/2011	10:20 AM	0	47.3	0	53.3	0.4	43.9	1A,2,3, 5, 8,9,11	70	55	70	Collect monthly compliance samples across SVE system.
8/3/2011	4:30 PM	3.1	77.8	3.2	73.8	3	71.8	1A,2,3, 5, 8,9,11	0	55	70	The dilution valve was closed but thought to be open. Possible instrument error due to increase moisture.
8/10/2011	9:30 AM	2.5	60	2.5	52.4	1.9	43.9	1A,2,3, 5, 8,9,11	70	55	70	Carbon sample collected for profiling purposes, KO Pot emptied (approximately 45 gallons)
8/18/2011	12:15 PM	0	52.8	0	56.8	0	45.2	1A,2,3, 5, 8,9,11	70	55	70	25 gallons removed from the KO pot, 1.25 drums full (6 empty drums)
8/24/2011	8:30 AM	1	54.6	1.4	51.1	0.7	41.4	1A,2,3, 5, 8,9,11	70	55	70	40 gallons drained from KO pot (2 full drums and 6 empties), PID was drifting, values may not be accurate, samples collected for monthly permit compliance across SVE system
	11:00 AM	3	61	4.3	58.2	2.4	42.5	1A,2,3, 5, 8,9,11	70	55	70	
8/31/2011	10:40 AM	0.1	50.7	0.6	56.4	0.2	41.8	1A,2,3, 5, 8,9,11	70	55	70	
9/8/2011	7:30 AM	1.9	55.1	1.8	50.6	1.2	45.1	1A,2,3, 5, 8,9,11	70	55	90	Increased VSC from 70% to 90% on 9/1/11. Opened SVE-4,6, and 10 to 100%. Opened SVE-7 to 50%. 2 full Drums and 6 empty drums onsite.
	11:30 AM	0	56.3	0	60.1	0	46.2	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	
9/13/2011	9:00 AM	47.3	75.2	46.5	71.2	36.7	54.5	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	4 full drums (1 filled with 40 gallons), 4 empties. System turned off at 1330 (20677 hours) due to high field readings
10/6/2011	12:45 PM	0	44.7	0	67.3	0	77.1	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	Carbon Changeout, 4 full drums (1 filled with 40 gallons), 4 empties
10/14/2011	9:20 AM	7.28	45.3	5.48	56.5	2.61	45.4	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	KO pot full, system off upon arrival, 105 gallons removed, 6 fulls drums, switch to a TVA per DTSC
10/20/2011	10:00 AM	135.13	87.6	88.08	77.8	27.4	59.6	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, removed 100 gallons from KO pot, 8 drums removed from site (340 gallons), and 8 empties dropped off, collect lab samples

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
10/27/2011	11:00 AM	108.93	83.1	65.49	76	41.43	66.3	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, removed 96 gallons from KO pot, 2 full drums onsite.
11/3/2011	2:00 PM	54.8	93.2	43.3	83.2	43.1	68.3	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot, 4 full drums onsite
11/10/2011	10:30 AM	363.02	86.6	208.84	83	73.38	67.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot, 6 full drums onsite
11/17/2011	8:30 AM	231.36	93.7	207.17	87.3	175.43	79.2	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, 8 drums removed from site (350 gallons), system samples collected
11/29/2011	9:45 AM	173.82	85.8	174.43	84.9	165.4	69.2	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, emptied KO pot (90 gallons), 2 full drums onsite
12/7/2011	7:30 AM	158	93.5	168	88.6	162	81.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot (80 gallons), 4 filled drums onsite
12/13/2011	12:00 PM	171	89.7	162	87.7	156	82.4	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot (80 gallons), 5 full drums onsite, perform system maintenance
12/20/2011	12:45 PM	252	88.4	248	82.7	209	77.8	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot (80 gallons), 7 filled drums onsite, observe wells, collect system samples
12/27/2011	2:45 PM	301	92	263	82.7	275	71.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, empty KO pot (80 gallons), 8 full drums onsite
1/3/2012	4:00 PM	284	93.4	266	86.8	280	72.1	1A,2,3,4,5,6,7(50%), 8,10,11	70	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 9.5 full drums on site.
1/10/2012	2:00 PM	222	90	197	88.2	186	81	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 11 full drums on site.
1/17/2012	6:30 AM	302	89.3	226	82.1	233	79.9	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, KO pot full (75 gallons of water removed) 12 Drums removed from site (AIS)
1/27/2012	10:00 AM	444	81.4	343	80.6	331	78.3	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 1.5 full drums on site.
1/31/2012	2:00 PM	402	90	303	78.7	317	82.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	KO pot emptied (70 gallons fo water removed) 3 drums on site
2/7/2012	10:00 AM	376	86.3	313	76.4	317	77.8	1A,2,3,4,5,6,7(50%), 8,9,10,11	70	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 5 full drums on site.
2/14/2012	1:30 PM	358	89.4	492	80	262	74.1	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 6.5 full drums on site.
2/21/2012	2:00 PM	322	89.8	407	82.6	306	75	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (75 gallons of water removed) 8 Full drums on site
2/28/2012	12:00 PM	416	88.8	443	84.1	333	77.6	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (75 gallons of water removed) 9.5 Full drums on site
3/6/2012	11:00 AM	371	87.4	394	86.6	288	79.1	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (75 gallons of water removed) 11 Full drums on site
3/13/2012	9:30 AM	388	88.1	444	89.9	269	79.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (75 gallons of water removed) AIS removed 12 full drums and left empties
3/20/2012	1:00 PM	354	94.7	406	87.3	208	74.1	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 1.5 full drums on site.
3/27/2012	2:00 PM	403	90.6	477	81.2	213	68.3	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 3.5 full drums on site.
4/3/2012	2:45 PM	452	90.7	400	83.3	303	66.2	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 6.0 full drums on site.
4/10/2012	6:00 PM	471	91.1	422	80.7	202	62.3	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 6.5 full drums on site.
4/17/2012	3:30 PM	556	87.6	394	79.3	266	68.4	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 8 full drums on site.
4/24/2012	1:00 PM	504	81.7	307	80.3	283	69.4	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off upon arrival, KO pot full (80 gallons of water removed) 9.5 full drums on site.

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Date	Time	POST GAC		MID PP		Effluent		Wells Open	Dilution (% Open)	Well Field (% Open)	VSC (%)	NOTES
		Conc (ppmv)	RH %	Conc (ppmv)	RH %	Conc (ppmv)	RH %					
5/1/2012	3:00 PM	556	76.1	407	74.3	371	70.1	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	No VES condensate drummed
5/8/2012	1:30 PM	496	83.6	388	80.1	401	77.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	No VES condensate drummed
5/15/2012	1:30 PM	391	80.1	233	78.3	276	71.4	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	No VES condensate drummed
5/22/2012	12:30 PM	168	53.8	184	60.1	167	46.7	1A,2,3,4,5,6,7(50%), 8,9,10,11	80	55	90	System off on arrival, Emergency stop alarm. Cleared with manual restart, No VES condensate drummed
5/29/2012	1:00 PM	40	39.4	36	38.4	29	31.4	8	80	55	70	Isolation Test conducted on well 8
5/29/2012	1:00 PM	188	41.1	154	40.7	150	30.3	8,9,10,11	80	55	90	System reconfigured to pull from SVE-8 through SVE-11, No VES condensate drummed
6/5/2012	1:00 PM	294	48.1	207	38.7	194	31.3	8,9,10,11	80	55	90	No VES condensate drummed
6/11/2012	12:30 PM	277	43.1	188	32.7	202	30.6	8,9,10,11	80	55	90	system shut off, Dilution Valve Problems diagnosed, No VES condensate drummed.
6/19/2012	3:00 PM	316	36.7	223	35.2	201	30.6	8,9,10,11	80	55	90	System off upon arrival, Emergency stop alarm. Cleared with manual restart, No VES condensate drummed
6/26/2012	12:30 PM	24.7	46.1	34.4	35.4	30.8	41.4	8,9,10,11	70	60	90	Sytem turned off for Carbon Changeout, 40 gallons removed and drummed. 10.5 full drums on site.

Notes: NA = Not Available
 NM = Not Measured
¹ When Differential pressure is not available, the system flow is given by the sum of Well Field and Dilution flowrates
^a Flow meter reading was erratic
 ALL = SVE 1A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
 $Q_w = \text{Well Field Flow} = 128.8 * 0.71 * 36 * [(\text{Well Field Static Pressure} * \text{Well Field Differential Pressure}) / (^\circ F + 460)]^{1/2}$
 $Q_d = \text{Dilution Air Flow} = 128.8 * 0.67 * 9 * [(\text{Dilution Static Pressure} * \text{Dilution Differential Pressure}) / (^\circ F + 460)]^{1/2}$
 $Q_s = \text{System Flow} = 128.8 * 0.71 * 36 * [(\text{System Static Pressure} * \text{System Differential Pressure}) / (^\circ F + 460)]^{1/2}$
 Conc = Concentration
 RH = Relative Humidity
 VSC = Variable Speed Control
italics: Used 0.54 correlation factor to go from Isobutylene to Hexane

Appendix C

I. Historical Soil Analytical Summary

Subsurface soil samples were collected at the site from 1980 through 1992. In March of 1990, remedial investigations (RI) were initiated at the site. The RI's were performed in two phases. Phase I was intended to characterize the surface and near surface soils. The Phase I investigations utilized hollow-stem auger drilling techniques to obtain soil samples to depths of 15 to 35 feet. The boreholes were sampled every 5 feet until either refusal was encountered or when contamination was assessed not to exist by field evaluation methods. The objective of the Phase II study was to determine the vertical extent of contamination and to find ground water table below the site. Phase II site investigations utilized an air rotary rig to penetrate through the alluvium into the bedrock formation. During Phase II investigation, ground water was not encountered under the site; therefore, ground water wells could not be installed.

From the phased RI investigations, it was determined that petroleum hydrocarbon contaminated areas covered almost the entire Site surface and extend vertically to 60 feet bgs. Petroleum hydrocarbons and PAHs were generally detected together in the same areas within the Site's surface soil. The most contaminated area for petroleum hydrocarbons and PAHs was in the northern and central portions of the Site [LETTRO JV, 1992]. Total recoverable petroleum hydrocarbons (TRPH) concentration was generally greatest at the surface and near surface and decreased with depth. PCBs were detected generally in the surface and near surface soils; however, PCBs were also detected at depth in the northern portion of the Site [LETTRO JV, 1992]. Lead concentrations over background were detected generally in formerly bermed areas of the Site, including areas on the eastern boundary in the southeastern corner and in the northwest central portion of the Site [LETTRO JV, 1992].

The processing and storage areas located north of the Site were impacted with petroleum hydrocarbons up to 140,000 parts per million (ppm). Petroleum hydrocarbons detected in soil were generally of heavier molecular weight semi-volatile organic compounds (SVOCs). Ethylbenzene, toluene, and xylene are VOCs associated with petroleum hydrocarbons and were found to a depth of 50 feet bgs. The presence of TCE was detected at 65 feet bgs, while PCE and dichloethane (DCA) were detected sporadically in subsurface soil across the entire Site. However, PAHs were detected to 65 feet bgs. PCBs were generally limited to surface soil along the eastern fenceline, with concentrations to 2.1 ppm. A PCB concentration of 0.41 was detected at 60 feet bgs. Surface soil pH ranged from 3 to 5 pH units. Soil pH at depth is unknown.

Figures illustrating historical soil sampling locations, various chemical impacts at the Site, and cross sections are presented in Appendix C. A summary of these figures are presented below:

- Figure C-1 (Figure 4.1 of the 1992 RI) presents the historical sample locations.
- Figure C-2 (Figure 4 of the 1999 RAP) illustrates the lateral extent of hydrocarbon contamination.
- Figure C-3 (Figure 5 of the 1999 RAP) illustrates the organic contamination.
- Figure C-4 (Figure 6 of the 1999 RAP) illustrates the lead contamination.
- Figure C-5 (Figure 7 of the 1999 RAP) illustrates the PCB contamination.

- Figure C-6 (Figure 4.4 of the 1992 RI) illustrates locations of cross sections A-A, B-B', and C-C'.
- Figures C-7, C-8, C-9 (Figures 4.5, 4.6, and 4.7 of the 1992 RI) illustrates the vertical extent of petroleum hydrocarbons and halogenated VOC contamination on cross sections A-A, B-B', and C-C'.

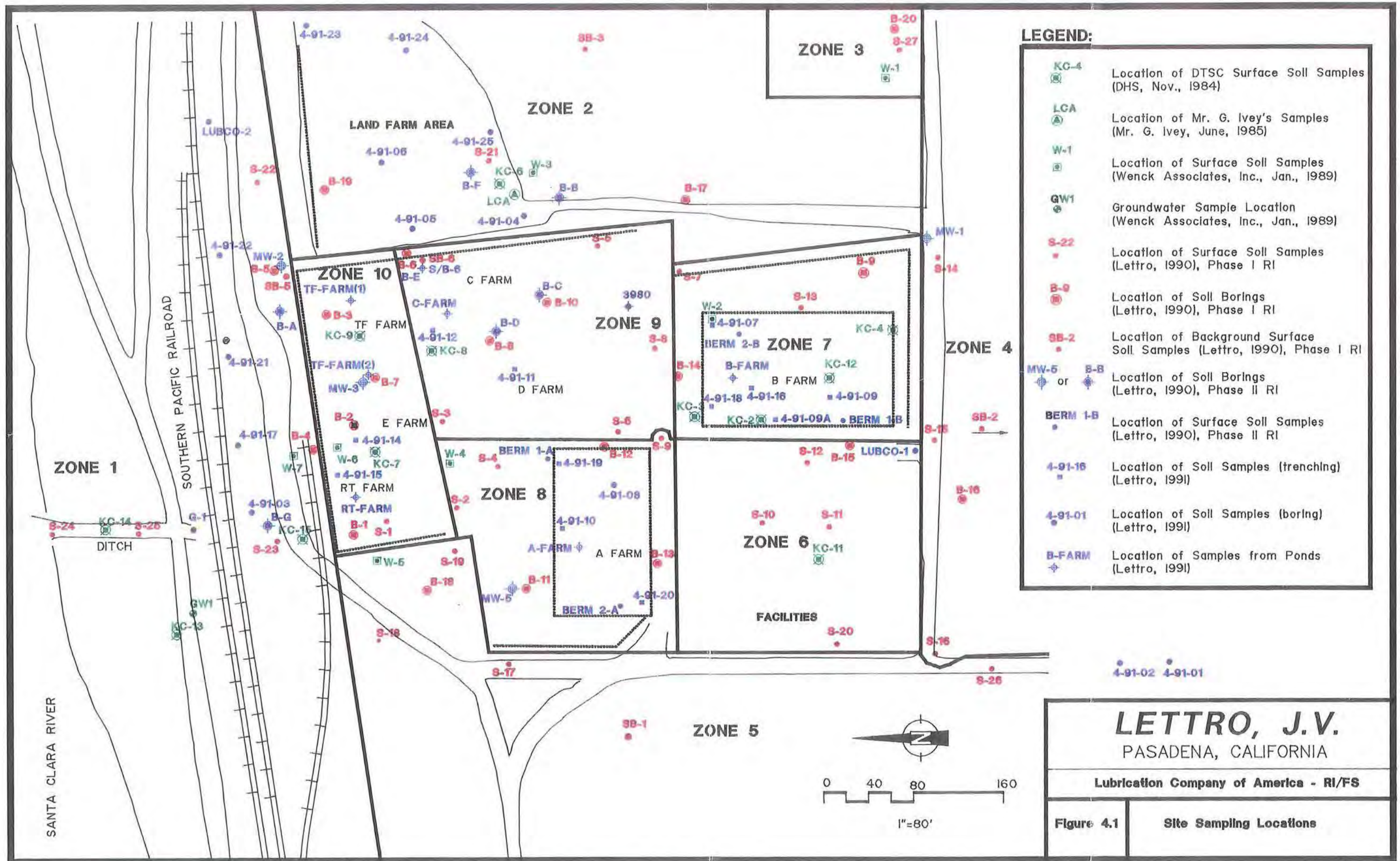


Figure C-1

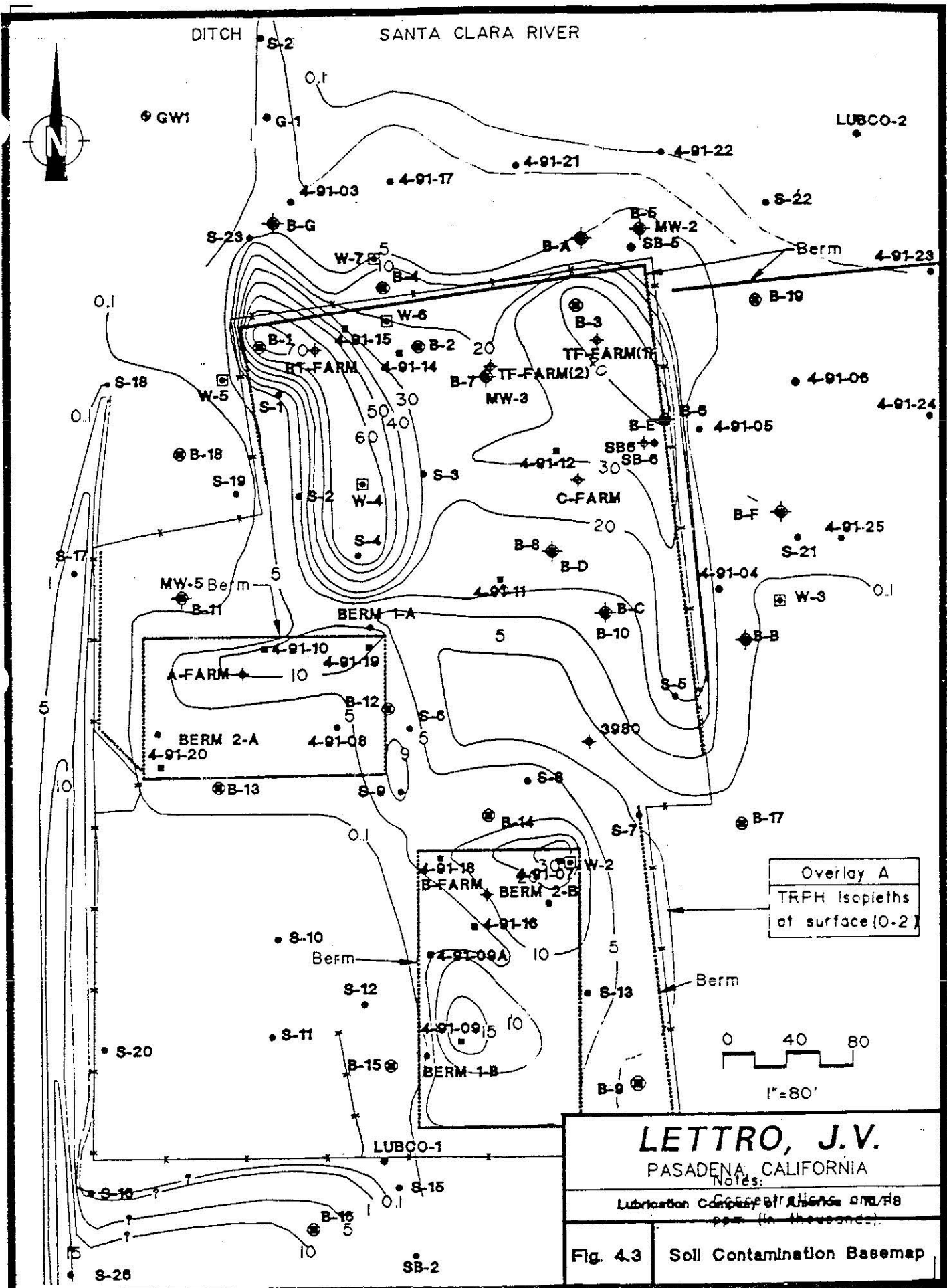


Figure C-2, Figure 4 of 1999 RAP

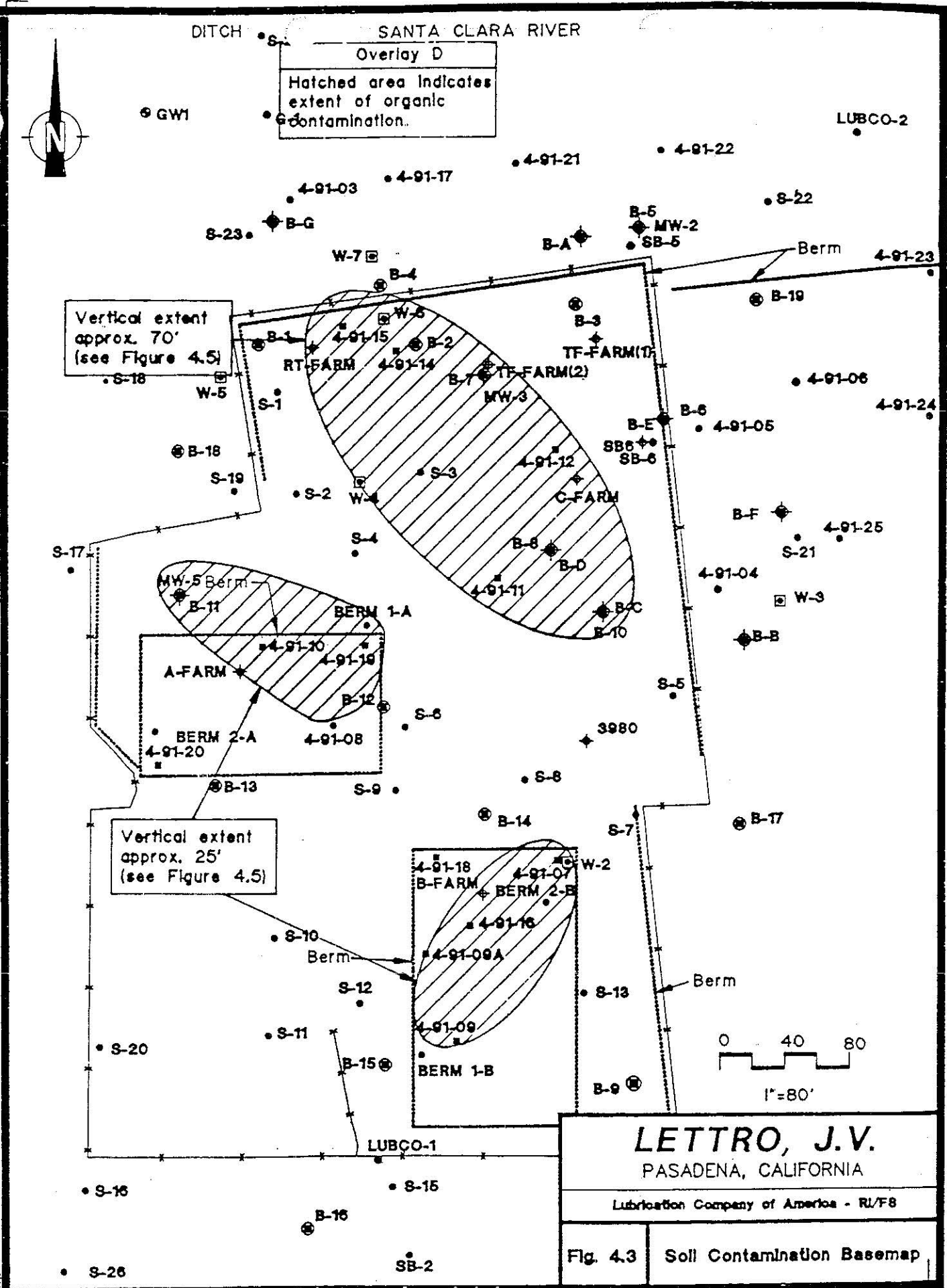


Figure C-3, Figure 5 of 1999 RAP

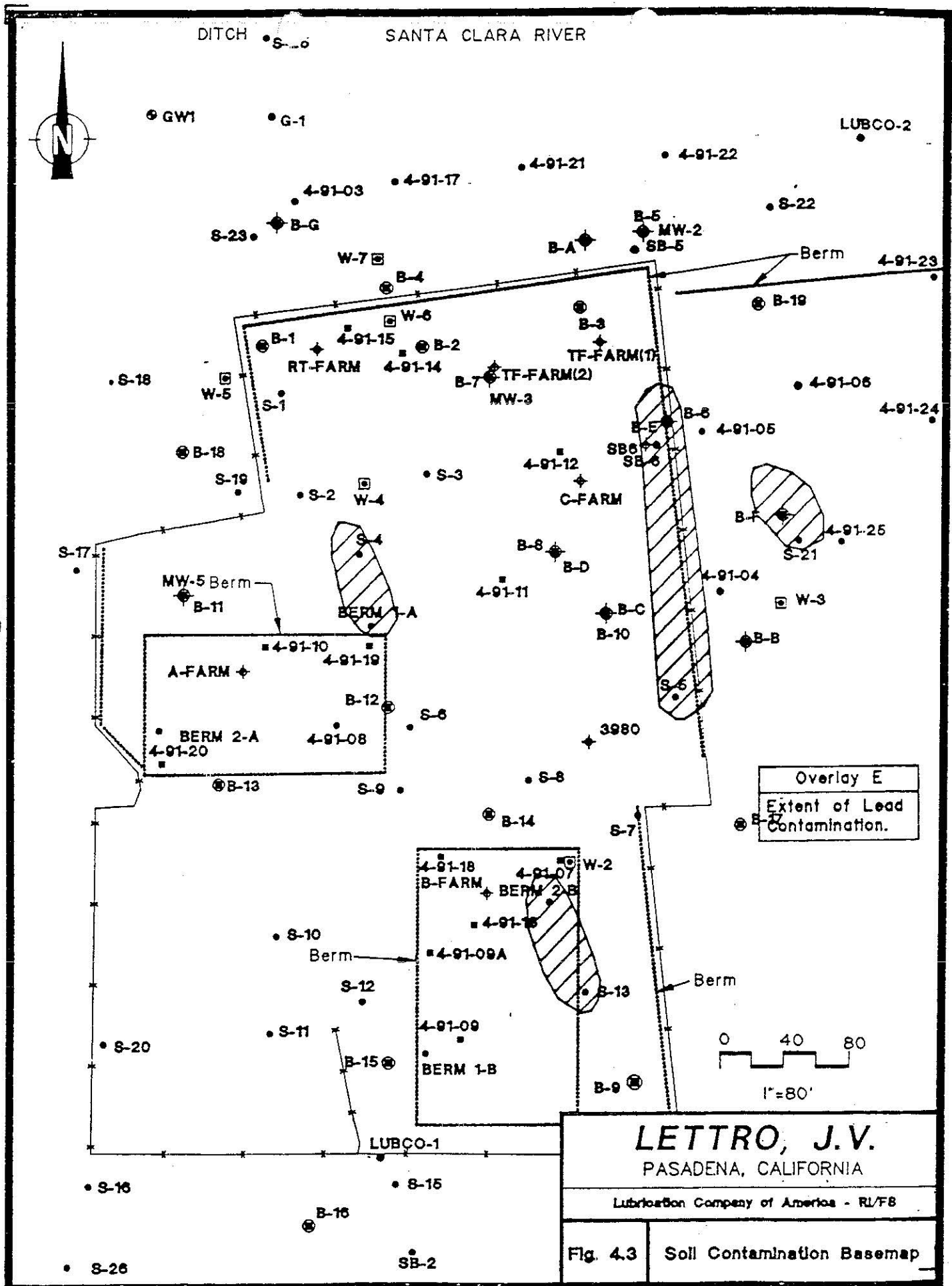


Figure C-4, Figure 6 of 1999 RAP

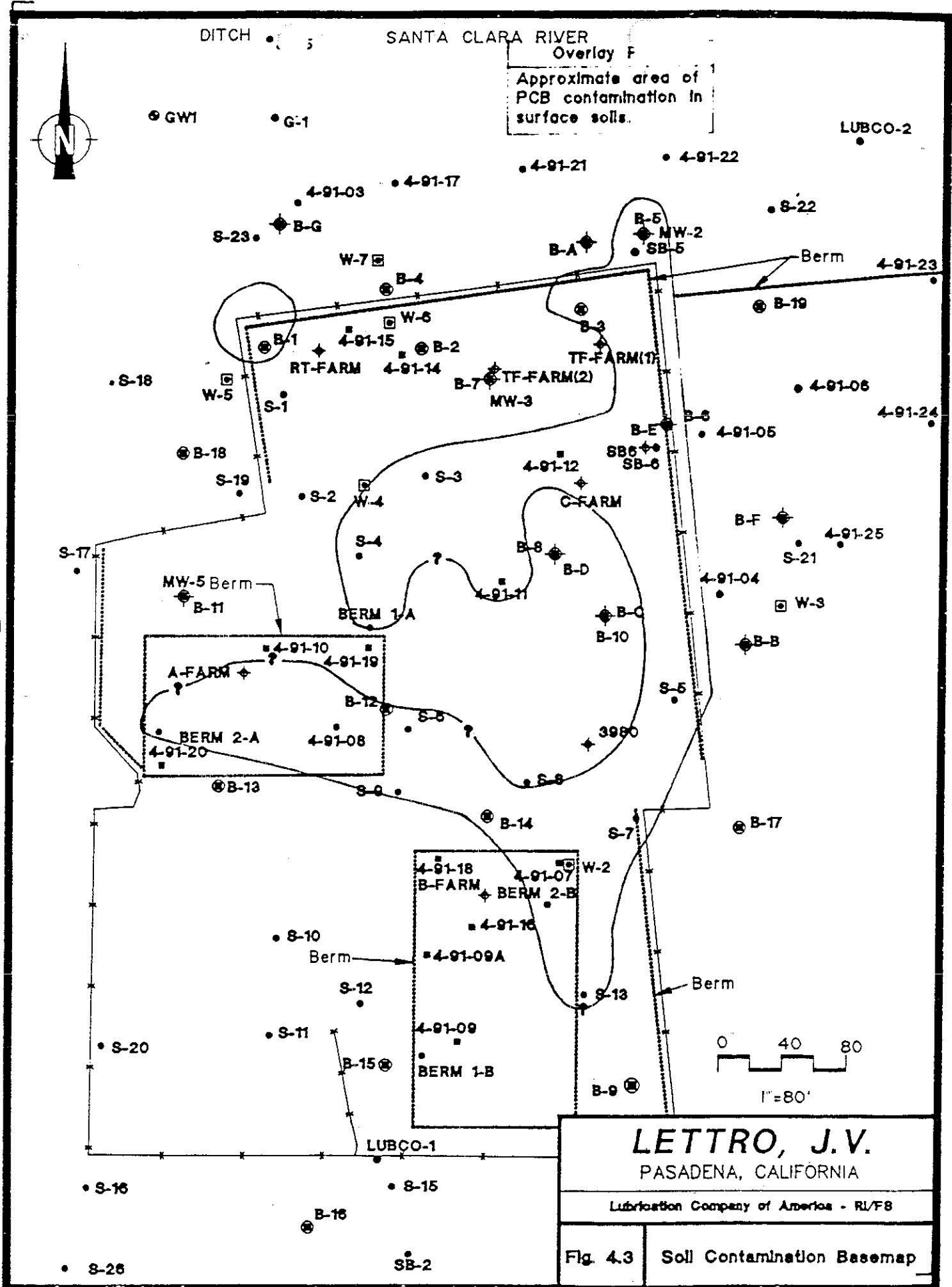


Figure C-5, Figure 7 of 1999 RAP

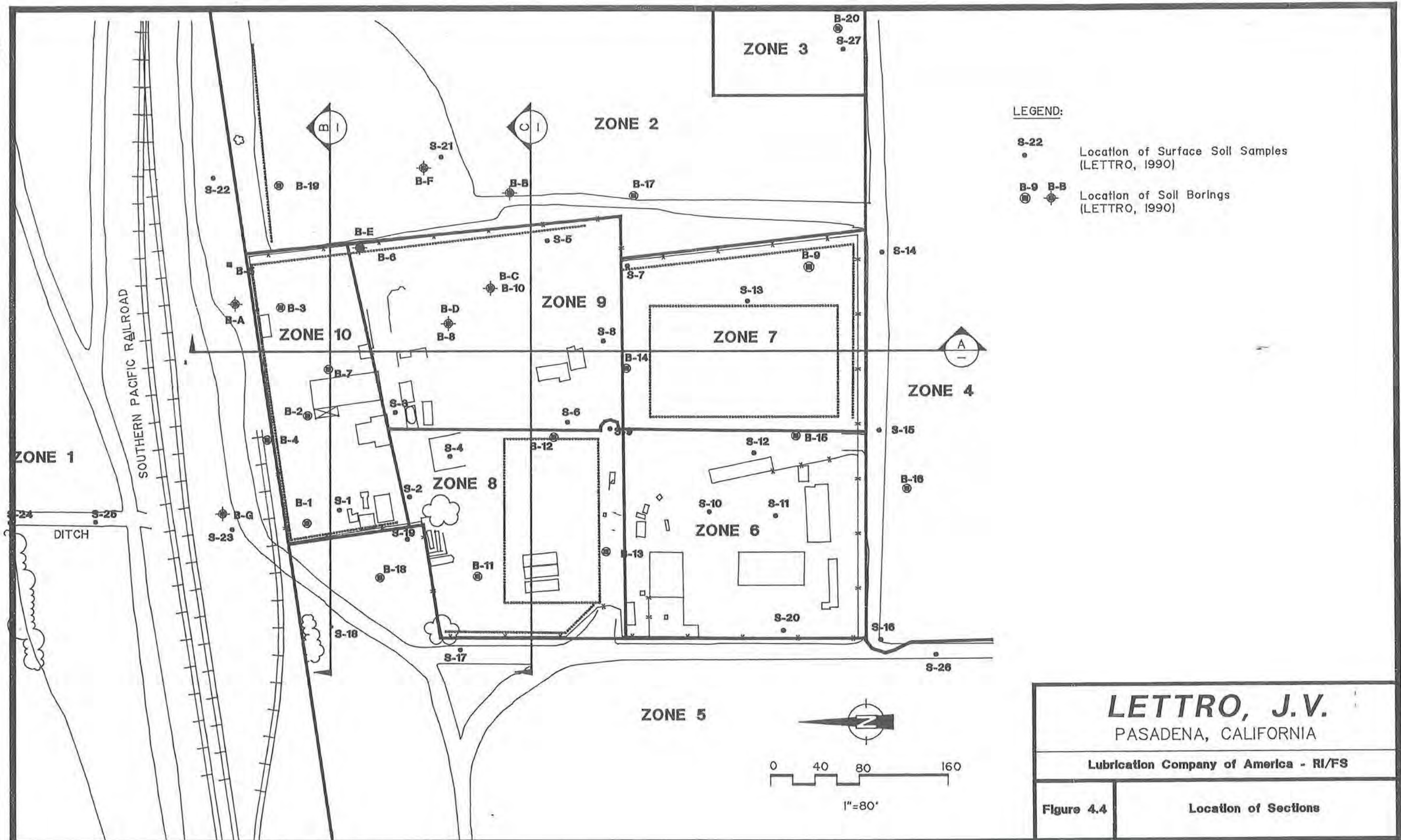


Figure C-6

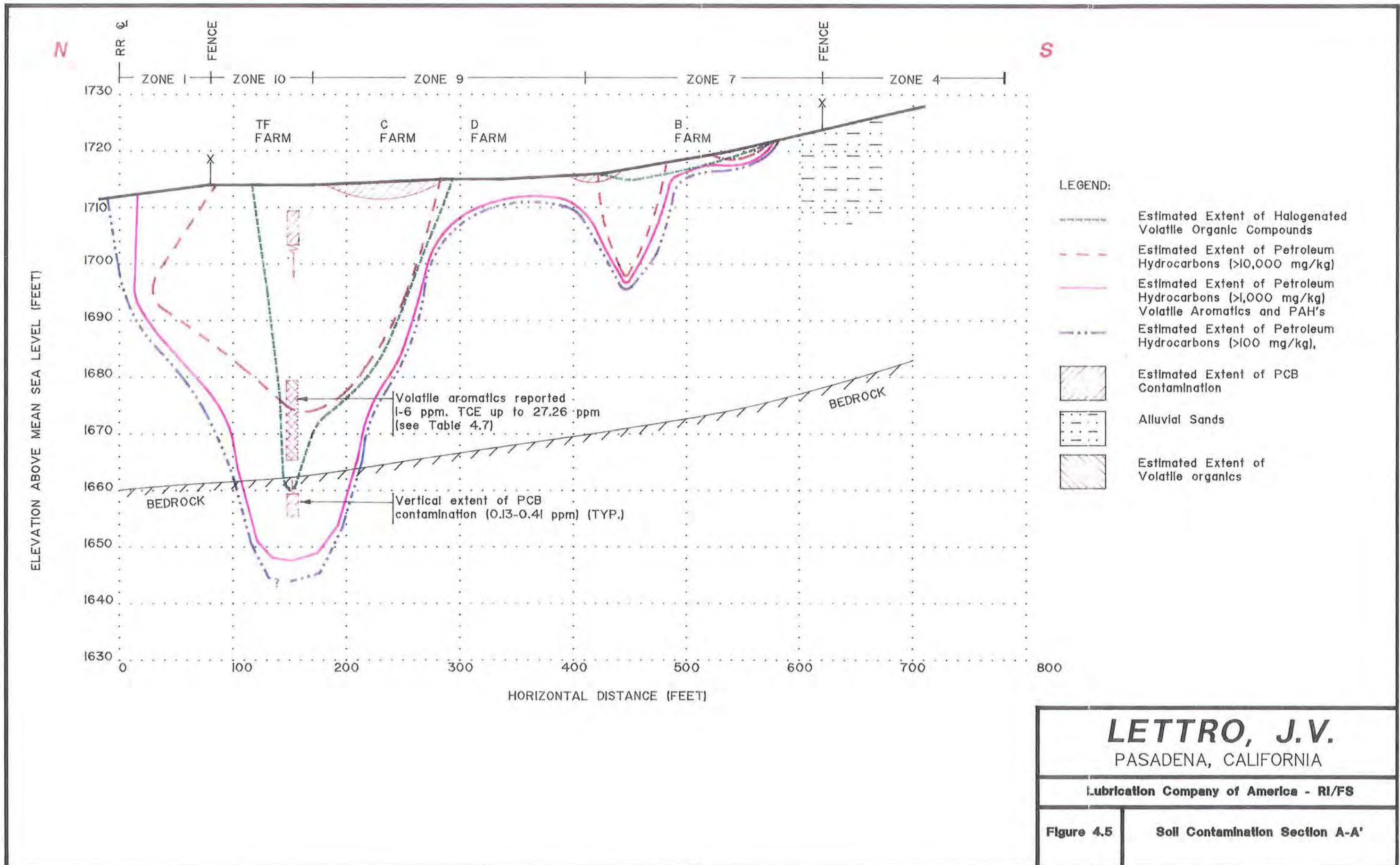
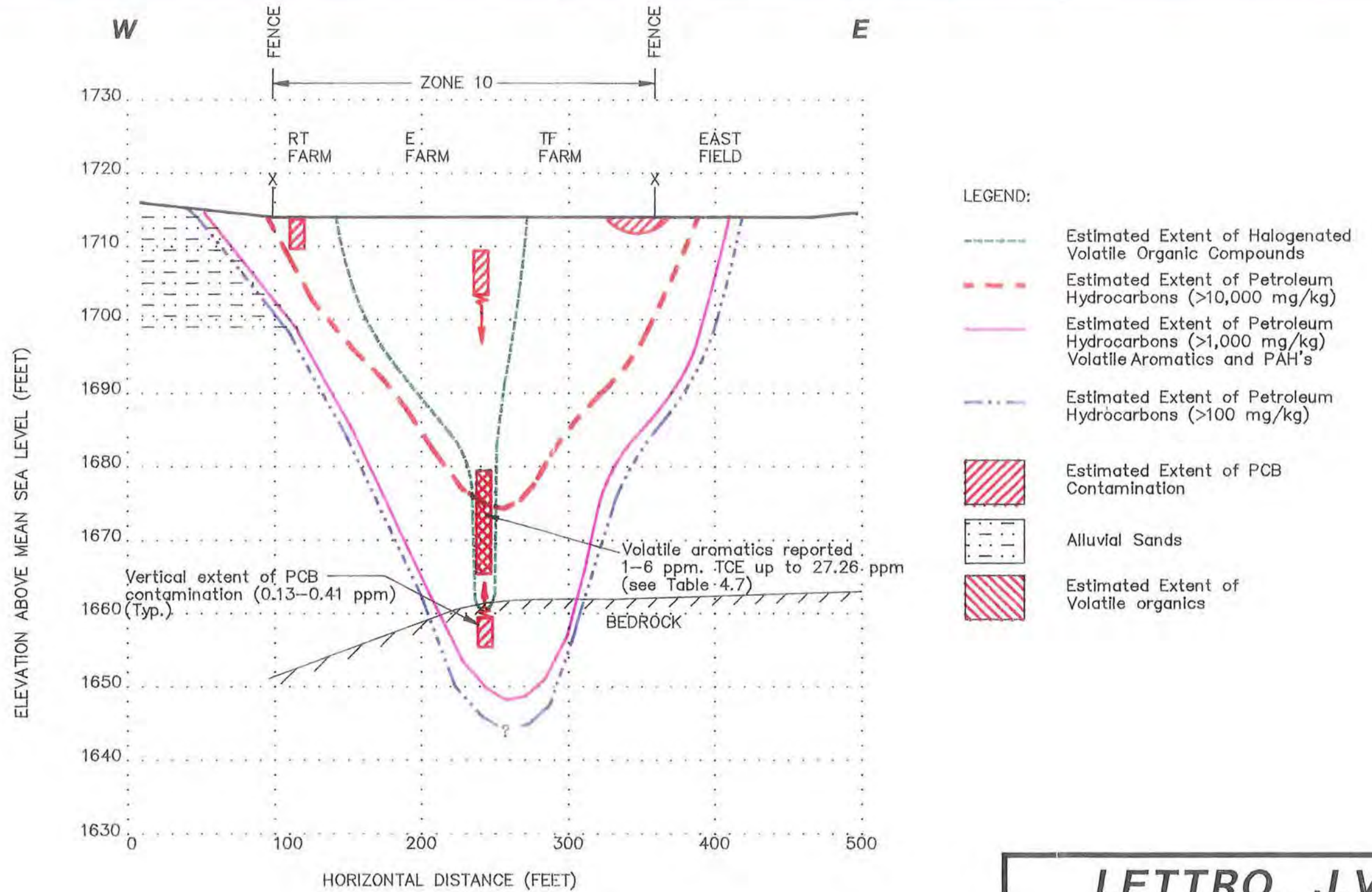
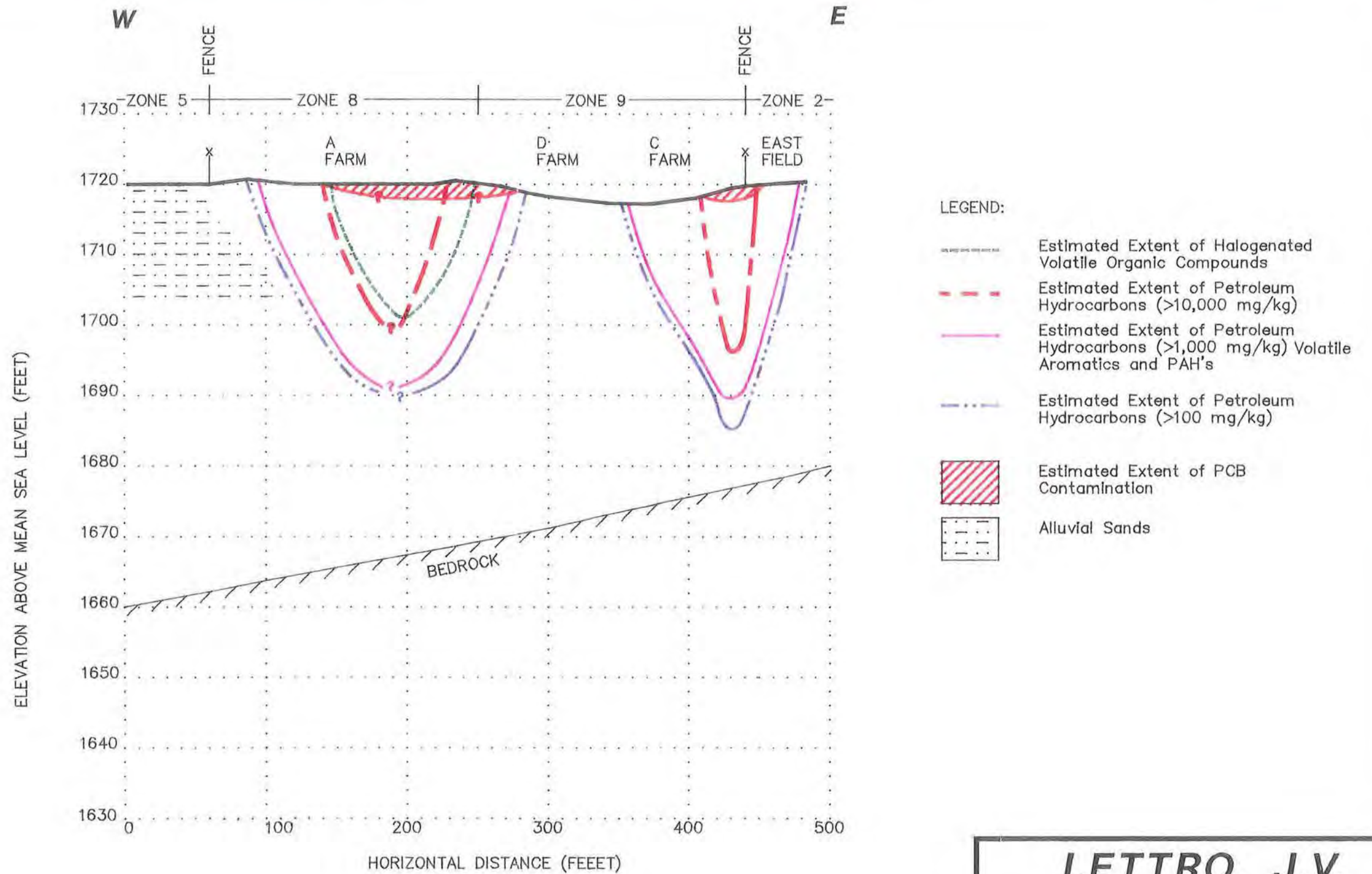


Figure C-7



LETTRO, J.V.	
PASADENA, CALIFORNIA	
Lubrication Company of America - RI/FS	
Figure 4.6	Soil Contamination Section B-B'

Figure C-8



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Lubrication Company of America - RI/FS	
Figure 4.7	Soil Contamination Section C-C'

Figure C-9

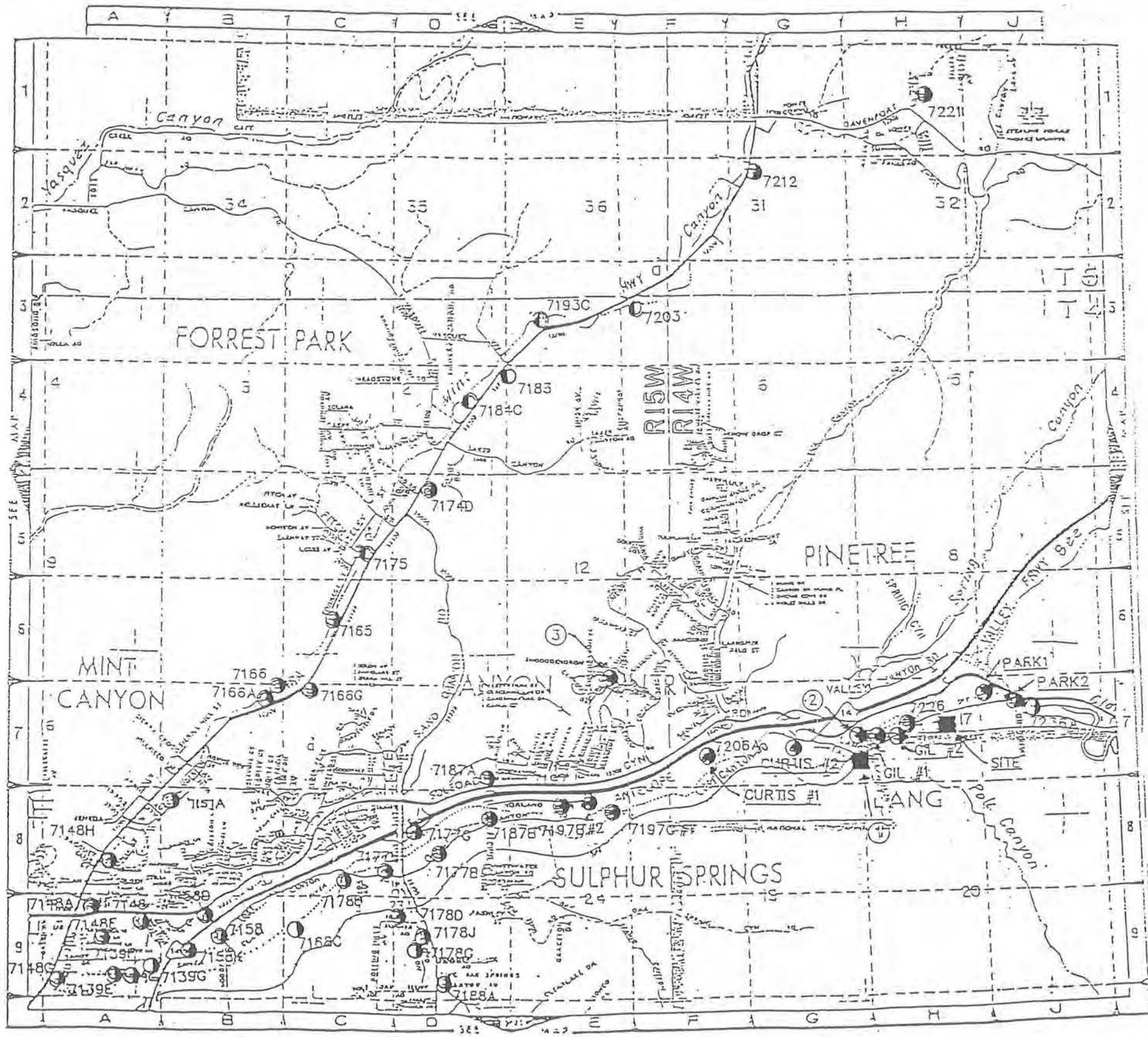
Appendix D

I. Historical Groundwater Analytical Summary

Groundwater samples were collected from municipal wells Curtis 1-A/1-B, Curtis 2-A/2-B, Gil 1-A/1-B, Gil 2-A/2-B, Park 1-A, and Park 2-A located around the Site in 1992. Samples were obtained from taps attached on top of the wells. No VOCs were detected in any of the wells. Figure D-1 presented in Appendix D shows the locations of the wells.

In August 1995 groundwater monitoring well MW-1 was constructed in the northwestern portion of the Site, and groundwater samples were collected from well MW-1. The groundwater investigation revealed elevated concentrations of VOCs. The DTSC determined that an additional groundwater investigation was necessary to fully define the extent of groundwater contamination at the Site (DTSC, 1999).

Between March and June 1998, three additional groundwater monitoring wells (MW-2 through MW-4) were installed at the Site. All Site wells MW-1 through MW-4 were subsequently sampled in July of 1998. VOC compounds were detected in groundwater samples collected from wells MW-1 and MW-4 located within the Site boundaries in the northwestern portion of the Site. Detected VOC compounds included benzene, n-Butylbenzene, sec-Butylbenzene, 1,1-DCA, cis-1,2-DCE, ethylbenzene, 1,1,2,2-tetrachloroethane, isopropylbenzene, 1,1,1-TCA, 1,1,2-TCA, vinyl chloride, and o-xylene. VOCs were not detected in groundwater samples collected from the downgradient well MW-3 or the upgradient well MW-2. Thus, the RI-FS (Woodward-Clyde, 1999) estimated the extent of VOC-impacted groundwater to be within Site boundaries. Compounds exceeding the Site specific groundwater cleanup goals included benzene, 1,1-DCA, cis-1,2-DCE, 1,1,2,2-tetrachloroethane, and vinyl chloride. Well casing survey data and groundwater analytical results for wells MW-1 through MW-4 are presented in Appendix D.

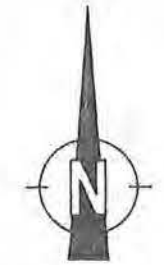


NOTE:

1. MAP IS MODIFIED FROM L.A. COUNTY DEPARTMENT OF PUBLIC WORKS' MAP.
2. ALL WELLS THAT LETTRO SAMPLED ARE SHOWN AT APPROXIMATE LOCATIONS.
3. CURTIS #2 IS ONE OF THREE WELLS IN A CLUSTER.
4. IT IS NOT CLEAR WHETHER GIL #2 IS STATE WELL 7225 AND PARK 2 IS WELL 7236A. LETTRO IS INVESTIGATING.
5. LETTRO SAMPLED WELLS PARK 1 AND 2, GIL #1 AND #2 AND CURTIS #1 AND #2.

KEY:

- ① - CURTIS SAND AND GRAVEL
- ② - P.W. GILLBRAND COMPANY
- ③ - HOMECRAFT CABINETS AND COUNTERTOPS



NOT TO SCALE

LETTRO, J.V.
PASADENA, CALIFORNIA

Lubrication Company of America - RI/FS

Figure 3.5

WELL LOCATION MAP

TABLE 4-1
SUMMARY OF SURVEY DATA AND GROUNDWATER ELEVATIONS
FORMER LUBRICATION COMPANY OF AMERICA
CANYON COUNTRY, CALIFORNIA

Groundwater Monitoring Well No.	Well Coordinates ¹		Date Measured	Depth to Water ³ (feet)	Groundwater Elevation (feet, MSL)
	Northing	Easting			
MW-1	1980418.547	6450027.438	7/29/98	42.24	1675.07
MW-2	1980167.014	6450253.095	7/29/98	41.79	1677.35
MW-3	1980458.845	6449714.803	7/29/98	38.19	1672.4
MW-4	1980284.085	6449971.422	7/29/98	43.64	1675.26

Notes:

1. NAD 83, Zone 5
2. MSL - Above Mean Sea Level
3. Depth to water measurements recorded from reference at north side of top of well casing
Elevation reference mark at north side of top of well casing surveyed
by Dulin & Boynton, Inc., relative to Los Angeles County Public
Works benchmark stamped CL-5011 located in west end of headwall,
25 feet south of centerline of Soledad Canyon Road and 1.0 mile
east of Lang Station Road, 172 feet east of powerpole #786951,
near post marker 11.05. Elevation = 1741.842 (NAD 1983)

TABLE 5-3

GROUNDWATER ANALYTICAL RESULTS
VOCs AND SVOCs
FORMER LUBRICATING COMPANY OF AMERICA SITE
CANYON COUNTRY, CALIFORNIA

Monitoring Well No.	Sample ID	Sampling Date	VOCs ⁽¹⁾ by EPA Method 8260A in (µg/L) ⁽²⁾												SVOCs ⁽³⁾ by EPA Method 625 in (µg/L)
			Benzene	n-Butylbenzene	sec-Butylbenzene	1,1-DCA ⁽⁴⁾	cis-1,2-DCE ⁽⁵⁾	Ethylbenzene	1,1,2,2-Tetrachloroethane	Isopropylbenzene	1,1,1-TCA ⁽⁶⁾	1,1,2-TCA ⁽⁷⁾	Vinyl Chloride	o-Xylene	SVOCs
MW-1	MW-01-43-1	7/29/98	2	ND (<1) ⁽⁸⁾	ND (<1)	88	44	2	2	ND (<1)	2	2	57	4	ND (<various) ⁽⁹⁾
MW-2	MW-02-42-1	7/29/98	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<10)	ND (<1)	ND (<various)
MW-3	MW-03-39-1	7/29/98	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<10)	ND (<1)	ND (<various)
MW-4	MW-04-44-1	7/29/98	13	3	6	4	ND (<1)	3	ND (<1)	2	ND (<1)	ND (<1)	34	5	ND (<various)
State of California DHS MCLs ⁽¹⁰⁾			1	NA ⁽¹¹⁾	NA ⁽¹¹⁾	5	6	680	1	NA ⁽¹¹⁾	200	32	0.5	1,750	ND (<various)

Notes: (1) VOCs = volatile organic compounds, see analytical report for complete list of analytes

(2) µg/L = micrograms per liter

(3) SVOCs = semi-volatile organic compounds, see analytical report for complete list of analytes

(4) 1,1-DCA = 1,1-dichloroethane

(5) cis-1,2-DCE = cis-1,2-dichloroethane

(6) 1,1,1-TCA = 1,1,1-trichloroethane

(7) 1,1,2-TCA = 1,1,2-trichloroethane

(8) ND (<1) = Not detected above the laboratory reporting limit indicated in parenthesis

(9) ND (<various) = Not detected above the laboratory reporting limit, see analytical report for reporting limits

Detected concentrations are shown in bold

(10) State of California Department of Health and Safety Maximum Contaminant Levels for drinking water.

(11) EPA and the State of California does not have published level for these compounds.

TABLE 5-4

**GROUNDWATER ANALYTICAL RESULTS
pH, GENERAL MINERALS, PCBs, TITLE 22 METALS
FORMER LUBRICATING COMPANY OF AMERICA
CANYON COUNTRY, CALIFORNIA**

Monitoring Well No.	Sample ID	Sampling Date	EPA Method 150.1	Dissolved Oxygen (percent)	EPA Method 300.0				EPA Method 7470A	EPA Method 608 ⁽¹⁾	EPA Method 6010B ⁽¹⁾						
			pH (pH)		Chloride (mg/L) ⁽²⁾	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Mercury (mg/L)	PCBs (µg/L) ⁽³⁾	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Nickel (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
MW-1	MW-01-43-1	7/29/98	7.01	1.8	35	0.1	ND (<0.1) ⁽⁴⁾	31	ND (<0.0005)	ND (<1.0)	0.113	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.118
MW-2	MW-02-42-1	7/29/98	7.01	8.7	38	3.7	ND (<0.1)	174	ND (<0.0005)	ND (<1.0)	0.095	ND (<0.005)	ND (<0.005)	0.005	ND (<0.005)	ND (<0.005)	0.283
MW-3	MW-03-39-1	7/29/98	7.28	7.8	32	1.1	ND (<0.1)	74	ND (<0.0005)	ND (<1.0)	0.01	ND (<0.005)	ND (<0.005)	0.008	ND (<0.005)	ND (<0.005)	0.008
MW-4	MW-04-44-1	7/29/98	7.02	1.4	29	ND (<0.1)	ND (<0.1)	64	ND (<0.0005)	ND (<1.0)	0.396	0.02	0.012	0.021	0.014	0.025	0.180
State of California DHS MCLs ⁽⁵⁾			6.5-8.5 ⁽⁶⁾		250/500/800 ⁽⁷⁾	45	1 ⁽⁸⁾	250/500/800 ⁽⁷⁾	0.002	0.5 ⁽⁹⁾	1	0.05	NA ⁽¹⁰⁾	1	0.1	NA ⁽¹⁰⁾	5

- Notes: (1) See laboratory analytical report for complete list of analytes
(2) mg/L = milligrams per liter
(3) µg/L = micrograms per liter
(4) ND (<1) = Not detected above the laboratory reporting limit indicated in parenthesis
Detected concentrations are shown in bold
(5) State of California Department of Health and Safety Maximum Contaminant Levels for drinking water.
(6) Levels indicated are EPA drinking water standards; State of California does not have a published level for these compounds.
(7) Levels indicated are recommended/upper/short term maximum.
(8) EPA and the State of California does not have published level for these compounds.

25016-1007

SITE VISIT FORM FOR DEED RESTRICTIONS

SITE NAME: Lubrication Co. of America

STREET ADDRESS:

CITY & ZIP CODE: Canyon Country

DATE OF FILE REVIEW: 2/17/2010

ELEMENTS OF DEED RESTRICTION: No cap disturbance, no disturbance of SVE system.

SITE VISIT DATE: 2/25/2010

OBSERVATIONS: cap in very good condition, fence intact, SVE system intact but not operating.

SIGNATURE: Richard Belts

UNIT CHIEF SIGNATURE: