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OCTOBER 2006-MARCH 2007 SEMI-ANNUAL AND 2006 ANNUAL MONITORING REPORT DETECTION MONITORING PROGRAM POWAY LANDFILL POWAY, CALIFORNIA

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SEMI-ANNUAL AND 2006 ANNUAL MONITORING REPORT
DETECTION MONITORING PROGRAM
POWAY LANDFILL
POWAY, CALIFORNIA

I certify that this document and attachments presented in this report are accurate and complete. This report was prepared by the staff of Geosyntec Consultants under my supervision to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who are directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

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TABLE OF CONTENTS

1. INTRODUCTION 1
   1.1 Terms of Reference 1
   1.2 Overview and Purpose 1
   1.3 Report Organization 1

2. SITE BACKGROUND 3
   2.1 Site Location and Use 3
   2.2 Geology and Hydrogeology 3
   2.3 Site Maintenance 4

3. GROUNDWATER MONITORING 5
   3.1 General 5
   3.2 Monitoring System 5
   3.3 Monitoring Parameters 6
      3.3.1 Detection Monitoring Program 6
      3.3.2 Monitored Natural Attenuation 6
   3.4 Groundwater Elevations and Flow Direction 7
   3.5 Groundwater Analytical Results 7
      3.5.1 Detection Monitoring Program Monitor Wells 7
      3.5.2 Monitored Natural Attenuation Parameters 9
   3.6 Discussion of Groundwater Monitoring Data 10
      3.6.1 DMP Monitor Wells 10
      3.6.2 Piezometers 10
      3.6.3 Monitored Natural Attenuation Evaluation 11
   3.7 Monitor Well Construction Evaluation 11
      3.7.1 Field Procedures 11
      3.7.2 Analytical Results 12
      3.7.3 Discussion of Well Construction Evaluation Results 14

4. SOIL VAPOR MONITORING 15
   4.1 General 15
   4.2 Soil Vapor Monitoring Network 16
   4.3 Soil Vapor Monitoring Parameters 17

4.4 Soil Vapor Analytical Results 17
4.4.1 Background Soil Vapor Wells 17
4.4.2 Property Boundary Soil Vapor Wells 18
4.4.3 Offsite Soil Vapor Wells 18
4.5 Discussion of Soil Vapor Data 19

5. ANNUAL SUMMARY 20
5.1 Summary of Groundwater Monitoring Data 20
5.2 Summary of Soil Vapor Monitoring Data 20
5.3 Summary of Monitor Well Construction Evaluation 21
5.4 Summary of Changes 21
5.5 Compliance Record 21

6. REFERENCES 24

TABLE OF CONTENTS (continued)

TABLES

2-1 Summary of Groundwater Depths and Elevations

3-1 Summary of Regulatory Standards

3-2 Summary of Groundwater Analytical Results

3-3 Comparison of Groundwater Sampling Method Analytical Results

4-1 Summary of Soil Vapor Analytical Results

4-2 Summary of Benzene, PCE, and TCE Concentrations in Soil Vapor

FIGURES

1-1 Site Location

2-1 Groundwater Elevations and Flow Direction and COC Concentrations, 17 January 2007

3-1 Groundwater Elevation Fluctuations

4-1 Soil Vapor Sample Locations and COC Concentrations, 22 January 2007

APPENDICES

A Groundwater and Soil Vapor Sampling and Analytical Procedures

B Groundwater and Soil Vapor Sample Collection and Field Calibration Logs

C Certificates of Analysis

D Time Series Plots

E Site Maintenance Reports

1. INTRODUCTION

1.1 Terms of Reference

This report documents the results of the October 2006 through March 2007 semi-annual and 2006 annual monitoring period for the Detection Monitoring Program (DMP) at the Poway Landfill. This report was prepared by Geosyntec Consultants (Geosyntec) for the County of San Diego, Department of Public Works, Landfill Management (County) to comply with the general waste discharge requirements (WDRs) established by the California Regional Water Quality Control Board (RWQCB), San Diego Region, in Order No. 94-165 [RWQCB, 1994]. This report was prepared by Mr. Christopher Gale and was reviewed by Mr. Veryl Wittig, PG, CHG, in accordance with Geosyntec's internal review policy. This report was also reviewed by Mr. Barry Pulver, PG, CHG, CEG, of the County.

1.2 Overview and Purpose

The Poway Landfill (site) is an inactive Class III municipal solid waste landfill located in Poway, California (Figure 1-1). The site is monitored semi-annually in compliance with Order No. 94-165, which requires the County to submit to the RWQCB semi-annual detection monitoring reports on 30 April and 30 October of each year. The previous annual detection monitoring report for the Poway Landfill, which covered the period from October 2005 through April 2006, was submitted to the RWQCB in April 2006 [Geosyntec, 2006a]. This report contains procedures and results of the current semi-annual and annual groundwater monitoring activities performed at the site, in compliance with Monitoring and Reporting Program (MRP) No. 94-165.

1.3 Report Organization

The remainder of this report is organized as follows:

- Section 2, "Site Background," contains site background information, including: site location, usage, and capacity; site characteristics including geology and hydrogeology; and site maintenance;
- Section 3, "Groundwater Monitoring," contains a description of the monitoring system, monitoring parameters, the semi-annual groundwater monitoring results (elevation and analytical), and the January 2007 monitor well construction evaluation;
- Section 4, "Soil Vapor Monitoring," contains a description of the soil vapor monitoring system, monitoring parameters, and the semi-annual soil vapor monitoring results;

- Section 5, " Annual Summary," contains a discussion of the results obtained during the current annual monitoring period and the compliance record;
- Section 6, "References," contains a list of references used in preparing this report;
- Appendix A, contains groundwater and soil vapor sampling and laboratory testing procedures;
- Appendix B, contains the groundwater and soil vapor sample collection logs from the current sampling event;
- Appendix C, contains the laboratory analytical certificates;
- Appendix D, contains time series plots of analytical data; and
- Appendix E, contains site maintenance reports provided by the County.

The following table contains a list of the components in this report required by the corresponding sections from MRP No. 94-165:

Required Submittal	Required Frequency	Location in this Report
D.1 Transmittal letter	Semi-annually	Cover letter
D.2.a Site maintenance	Semi-annually	Section 2.3 and Appendix D
D.2.b Groundwater gradient and flow direction	Semi-annually	Section 3.4 and Figure 2-1
D.2.c Well information	Semi-annually	Section 3 and Appendices A and B
D.2.d Sample collection procedures	Semi-annually	Appendices A and B
D.2.e Map of monitoring locations	Semi-annually	Figure 2-1
D.3.a Graphical presentation of analytical data	Annually	Appendix D
D.3.b Compliance record discussion	Annually	Section 5.5
D.3.c Summary of changes	Annually	Section 5.4

2. SITE BACKGROUND

This section presents site background information, including: site location, usage, and capacity; site characteristics including geology and hydrogeology; and site maintenance. This information is summarized from the "Water-Quality Solid Waste Assessment Test (SWAT) Report, Poway Sanitary Landfill" [IT, 1993], the "Evaluation Monitoring Program (EMP), Report of Findings, Poway Landfill" [IT, 1999a], and from monitoring reports prepared by IT Corporation (IT) and Geosyntec for the County from 1993 to the present.

2.1 Site Location and Use

The site is located at 14900 Poway Road in the City of Poway, California (Figure 1-1). The landfill is situated at the head of a small south-trending canyon that widens to the south and drains to the main east-west drainage of Poway Creek located about 0.5 mile south of the landfill. The site encompasses an area of approximately 39 acres of which the landfill occupies approximately 14.5 acres.

The landfill is owned and was operated by the San Diego County, Department of Public Works as a burn dump from 1949 to 1966, and as a Class II (Class III under current regulations) solid waste disposal site from 1967 to 1975. The landfill was permitted to receive residential, commercial, and agricultural wastes. No known septic, industrial, chemical or liquid wastes were received at the site. The landfill contains an estimated 165,000 tons of refuse with a maximum waste fill thickness of 80 feet.

The landfill was constructed without a liner and does not have a leachate collection or removal system. Other than the groundwater monitor wells and five landfill gas monitoring probes, no leak detection system has been installed at the landfill. A landfill gas extraction system consisting of an extraction well field and a flare have been in operation at the site since July 1996. Seven additional landfill gas extraction wells were installed in the deepest portions of waste fill in December 2000, and three additional landfill gas extraction wells were installed in November 2005. The landfill cover consists of an approximately 2 to 10 foot-thick layer of clean soil. Surrounding land use consists of residential and open space.

2.2 Geology and Hydrogeology

The site is located in the Peninsular Range geomorphic province in San Diego County. The landfill is underlain by Cretaceous-age granitic rock of the Southern California Batholith. Discontinuous outcrops of the Lusardi Formation, a poorly sorted conglomerate, rest unconformably on the granitic bedrock in the northeastern portion of the site. The waste fill is underlain along its eastern perimeter by Quarternary-age colluvium and alluvium composed of

weathered granitic bedrock. In the western portion of the landfill, the refuse rests directly on the bedrock [IT, 1993].

The site is located in the Poway Hydrologic Area (6.20) of the Peñasquitos Hydrologic Unit [RWQCB, 2006a]. Groundwater is unconfined at the site and flows in the weathered and fractured bedrock. Historically, groundwater elevations have ranged from approximately 695 feet above Mean Sea Level (MSL) to approximately 576 feet MSL (Table 2-1).

2.3 Site Maintenance

Appendix D presents the results of inspections conducted by County personnel at the Poway Landfill and information on site conditions and maintenance activities during the current monitoring period.

3. GROUNDWATER MONITORING

3.1 General

This section describes the groundwater monitoring program at the Poway Landfill and presents the results of groundwater monitoring activities conducted during the October 2006 through March 2007 monitoring period. Monitoring activities consisted of the following:

- Measuring depth to groundwater in 20 monitor wells and five piezometers;
- Collecting groundwater samples from 17 monitor wells and one piezometer;
- Analyzing water samples;
- Evaluating laboratory data, and preparing this report.

Groundwater monitoring and sample collection was performed by BBC Environmental, a subcontractor to Geosyntec. Groundwater samples could not be collected from monitor wells POGW-12, POGW-17A, and POGW-18A because the wells were dry during the first quarter 2007 sampling event. Analyses were performed at Calscience Environmental Laboratories, Inc. in Garden Grove, California. A description of the groundwater sampling and laboratory analytical methods is included in Appendix A. Analytical results were compared to revised site-specific proposed water-quality protection standard (WQPS) concentration limits submitted to the RWQCB in the 1998 Annual Report [IT, 1999b]. At the RWQCB's request, the revised proposed WQPSs were resubmitted with additional clarification in May 2000 [Geosyntec, 2000a]. The revised WQPSs, Basin Plan Water Quality Objectives (WQOs), and regulatory standards are listed in Table 3-1 as a reference [RWQCB, 2006a and 2003].

3.2 Monitoring System

Per Order No. 94-165, nine groundwater monitor wells comprise the groundwater monitoring network at the Poway Landfill (Figure 2-1). Three of these groundwater monitor wells are installed upgradient of the refuse (POGW-6, POGW-9, and POGW-10) and six are installed downgradient of the refuse (POGW-11, POGW-12, POGW-13, POGW-14, POGW-15, and POGW-16). In June 2005, two nested monitor well pairs (POGW-17A/POGW-17B and POGW-18A/POGW-18B) were installed within the public right-of-way of Los Olivos and Dehia Street to further evaluate groundwater conditions downgradient of the landfill. In April and June 2006 four additional monitor wells were installed: two monitor wells were installed along the southern property boundary (POGW-20 and POGW-21), one installed west of POGW-16 (POGW-19), and one installed within the public right-of-way of Hidden Knoll Road (POGW-22). In November 2006, three additional offsite monitor wells (POGW-23,

POGW-24A, and POGW-24B) were installed within the public right-of-ways of Dehia Street and Silver Heights Road. In addition to the nine wells in the monitoring network, the County voluntarily sampled the 11 monitor wells installed since June 2005 and one piezometer (POPW-1) during the current monitoring event to further evaluate VOC concentrations previously detected in groundwater samples collected from the piezometer during source characterization groundwater sampling performed in 2003.

3.3 Monitoring Parameters

3.3.1 Detection Monitoring Program

In compliance with Section C.3.b of MRP No. 94-165 and the revised MRP [Geosyntec, 2000b] approved by the RWQCB in a letter dated 10 August 2000 [RWQCB, 2000], groundwater samples are collected from the monitor wells semi-annually and analyzed as follows:

Parameter	Method
Chloride	SM4500-Cl C
Nitrate as nitrogen	EPA 353.3/354.1
Field pH, field conductivity	Field Method
Sulfate	EPA 375.4
Total Dissolved Solids (TDS)	EPA 160.1
Bicarbonate, carbonate	SM2320B
Chemical Oxygen Demand (COD)	EPA 410.4
Dissolved calcium, potassium, magnesium, and sodium	EPA 6010B
Volatile Organic Compounds (VOCs)	EPA 8260B

The groundwater sample collected from monitor well POGW-24A was not analyzed for metals (dissolved calcium, potassium, magnesium, and sodium) or general chemistry parameters (chloride, nitrate as nitrogen, sulfate, TDS, bicarbonate, and carbonate) because the well did not recover after the collection of groundwater samples for VOC and COD analyses.

3.3.2 Monitored Natural Attenuation

Based on the initial screening of monitored natural attenuation (MNA) parameters presented in the Report of Waste Discharge and Engineering Feasibility Study (ROWD-EFS) [Geosyntec, 2005], the selected site-specific MNA parameters that support evidence that natural attenuation is occurring in groundwater at the site and within the site vicinity are presented in the table below. Groundwater samples collected from the monitor wells and piezometer POPW-1 were analyzed for MNA parameters as follows:

Parameter	Method
Dissolved Oxygen	Field Measurement
Oxidation Reduction Potential	Field Measurement

3.4 Groundwater Elevations and Flow Direction

Groundwater levels were measured on 17 January 2007 and each monitor well and piezometer was checked for the presence of floating immiscible layers. No floating immiscible layers were detected in the monitor wells or piezometer. Groundwater elevations decreased in all monitor wells and piezometers between the third quarter 2006 and first quarter 2007, except POGW-10 and POPW-3. Groundwater elevation decreases ranged from 0.88 feet in POGW-22 to at least 7.08 feet in POGW-18A. POGW-12, POGW-17A, and POGW-18A were dry during the first quarter 2007 monitoring event; therefore groundwater elevation decreases could not be quantified in these wells. Historically, groundwater elevations generally decreased or were relatively stable from August 1998 until August 2004. Groundwater elevations in all wells (except POGW-12) and piezometers increased from August 2004 to August 2005. Since August 2005 groundwater elevations in the monitor wells and piezometers have generally decreased or remained relatively stable (Figure 3-1). Consistent with previous results, groundwater is interpreted to flow generally to the south at an average hydraulic gradient ranging from 0.03 to 0.19 feet per foot (ft/ft) (Figure 2-1).

3.5 Groundwater Analytical Results

The monitor wells and piezometers were purged and sampled on 17 and 18 January 2007. Groundwater sample collection logs are presented in Appendix B. Certificates of analysis and chain-of-custody documents are presented in Appendix C along with data validation. Table 3-2 presents the groundwater analytical results including quality assurance/quality control (QA/QC) sample results for the first quarter 2007 monitoring event.

3.5.1 Detection Monitoring Program Monitor Wells

Groundwater samples collected from background monitor wells POGW-6, -9, and -10 did not contain detectable concentrations of VOCs with the exception of a trace concentration of naphthalene in the sample collected from POGW-9. Naphthalene has not previously been reported in samples collected from POGW-9. However, the method detection limit (MDL) reported during the current monitoring period is lower than previous events. The change in the MDLs is due to MDL studies conducted by Calscience as part of maintaining their state certification. In addition, the reported estimated concentration of naphthalene during the first quarter 2007 event is less than the previous MDL. Groundwater samples collected from compliance monitoring well POGW-11 and downgradient monitoring wells POGW-18B, -23, and -24A did not contain detectable concentrations of VOCs. Groundwater samples collected from compliance monitor wells POGW-13, -14, -15, and -16, downgradient monitoring wells

POGW-17B, -19, -20, -21, -22, and -24B, and piezometer POPW-1 during the first quarter 2007 sampling event contained the following VOCs:

Parameter	Concentration (micrograms per liter)											
	MCL	POGW-13	POGW-14	POGW-15	POGW-16	POGW-17B	POGW-19	POGW-20	POGW-21	POGW-22	POGW-24B	POPW-1
1,1-Dichloroethane	5	-	-	3.9	-	-	-	-	-	-	**5.0**	1.0
1,1-Dichloroethene	6	-	-	0.91J	-	-	-	-	-	-	0.67J	0.89J
1,2,4-Trimethylbenzene	NE	-	-	-	-	-	-	-	-	0.20J	-	-
1,4-Dichlorobenzene	5	-	-	-	2.7	0.34J	0.97J	-	1.2	-	1.9	1.4
Acetone	NE	-	-	-	-	-	-	-	-	24J	-	-
Benzene	1	-	-	-	-	-	-	-	-	-	-	**1.2**
Bromodichloromethane	80[1]	-	-	-	-	-	-	-	-	1.4	-	-
Chlorobenzene	70	-	-	-	0.39J	-	-	-	-	-	1.0	-
Chloroform	80[1]	1.6	-	-	-	-	-	-	-	1.3	-	1.7
Dibromochloromethane	80[1]	-	-	-	-	-	-	-	-	1.7	-	-
cis-1,2-Dichloroethene	6	-	**37**	1.3	**13**	-	**35**	-	**7.1**	0.83J	0.88J	**280D**
trans-1,2-Dichloroethene	10	-	-	-	-	-	-	-	-	-	-	1.8
Dichlorodifluoromethane	NE	-	-	1.4	0.68J	1.1	4.2	1.2	1.5	-	2.5	0.77J
Ethylbenzene	300	-	-	-	-	-	-	-	-	0.29J	-	-
Naphthalene	NE	-	-	-	0.48J	-	-	-	-	-	-	-
Tetrachloroethene	5	-	-	4.2	1.1	-	2.0	-	0.56J	-	1.4	3.4
Toluene	150	-	-	-	-	-	-	-	-	8.9	-	-
Total xylene	1750[2]	-	-	-	-	-	-	-	-	0.84J	-	-
Trichloroethene	5	-	**30**	1.2	4.6	0.48J	**15**	-	**6.4**	2.1	1.0	**1200D**
Vinyl Chloride	0.5	-	**3.2**	-	-	-	0.31J	-	-	-	0.37J	**2.5**

Bolded values exceed the maximum contaminant level (MCL)
– Not detected at concentration greater than the method detection limit (MDL)
J – Estimated concentrations between the MDL and the reporting limit (RL)
MCL – Maximum Contaminant Level in drinking water
[1]- For total trihalomenthanes (sum of bromoform, bromodichloromethane, chloroform and dibromochloromethane)
[2]- For total xylenes

Groundwater samples collected from downgradient monitor well POGW-9 did not contain general chemistry parameters or metals at concentrations exceeding the proposed WQPSs. The following general chemistry parameters and metals exceeded the proposed WQPSs in the groundwater samples collected from compliance monitor wells POGW-11, -13, -14, -15, and -16; downgradient monitoring wells POGW-17B, -18B, -19, -20, -21, -22, -23, and -24B; and background monitor wells POGW-6 and -10 during the first quarter 2007 sampling event:

Concentration* (milligrams per liter)	Parameter								
	Chemical Oxygen Demand	Chloride	pH	Sulfate	TDS	Calcium	Magnesium	Potassium	Sodium
WQPS	55.89	314	5.47 – 8.28	292	1115	77.23	80.89	11.68	150
POPW-1	-	690	-	340	2510	176	240	12.9	246
POGW-6	-	-	-	350	-	-	-	-	157
POGW-10	-	-	-	310	-	-	-	15.8	-
POGW-11	-	340	-	300	1130	-	-	-	170
POGW-13	83	-	-	340	-	-	-	-	218
POGW-14	75	-	-	-	-	-	-	-	-
POGW-15	-	-	-	-	-	84.9	-	-	169
POGW-16	64	-	-	-	-	-	-	-	-
POGW-17B	64	-	-	310	1200	83.5	87.8	-	210
POGW-18B	-	-	-	300	-	-	-	-	216
POGW-19	170	370	-	-	1210	87.0	118	22.9	176
POGW-20	64	-	-	-	-	-	-	-	222
POGW-21	110	360	5.15	-	1310	92.6	88.4	-	237
POGW-22	94	-	-	-	-	-	-	-	-
POGW-23	-	330	-	330	-	95.2	-	15.2	159
POGW-24B	-	560	-	340	1840	137	120	-	359

– Not detected at concentration greater than the WQPS
TDS – Total dissolved solids
WQPS – Water Quality Protection Standard
* - pH reported in pH units

3.5.2 Monitored Natural Attenuation Parameters

The following MNA parameters were measured in the field in groundwater samples collected from monitor wells and piezometer POPW-1 during the first quarter 2007 monitoring event:

Location	Parameter	
	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
POGW-6	0.78	-16
POGW-9	6.47	79
POGW-10	6.76	77
POGW-11	4.95	140
POGW-13	2.28	166
POGW-14	1.36	-9
POGW-15	3.79	75
POGW-16	2.25	45
POGW-17B	2.55	170
POGW-18B	5.70	123
POGW-19	7.01	25
POGW-20	5.29	38

Location	Parameter	
	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
POGW-21	2.56	37
POGW-22	5.73	52
POGW-23	7.61	150
POGW-24B	3.51	-19
POPW-1	3.69	82

mg/L – milligrams per liter
mV – millivolts

3.6 Discussion of Groundwater Monitoring Data

3.6.1 DMP Monitor Wells

General chemistry parameters, metal parameters, and VOC concentrations in groundwater samples collected at the site are generally within the historic range of concentrations and are relatively stable with the following exceptions:

- Increasing concentrations of chemical oxygen demand in groundwater samples collected from monitor wells POGW-13, -14, -17B, -19, -20, -21, and -22 since July 2006;
- Decreases in pH in the groundwater samples collected from monitor wells POGW-16 and -21 to levels below the lower WQPS since July 2006;
- Increasing concentrations of sulfate in groundwater samples collected from onsite and offsite monitor wells since July 2006; and
- A detection of bromodichloromethane in the groundwater sample collected from monitor well POGW-22 in January 2007.

Acetone was detected in the groundwater sample collected from monitor well POGW-22. However, acetone has historically been detected in groundwater samples collected from background monitor wells, which indicates acetone may not be attributable to the landfill. Chloroform was detected in groundwater samples collected from downgradient offsite compliance monitor well POGW-13, downgradient monitoring wells POGW-22, and piezometer POPW-1 during the first quarter 2007 monitoring event. Chloroform is commonly associated with chlorinated municipal water and has historically been detected in groundwater samples collected from monitor wells located in residential areas with landscaping irrigated with municipal water. Therefore, chloroform does not appear to be attributable to the landfill.

3.6.2 Piezometers

General chemistry parameters, metal parameters, and VOC concentrations in the groundwater

samples collected from piezometer POPW-1 are generally within the historic range of concentrations except for increasing concentrations of chloride since January 2005.

3.6.3 Monitored Natural Attenuation Evaluation

MNA parameters in groundwater samples collected during the first quarter 2007 generally indicate that natural attenuation of chlorinated hydrocarbons in groundwater at the site may be limited [Weidemeier et al., 1998]. However, concentrations of degradation products (i.e., cis-1,2-dichloroethene and vinyl chloride) in groundwater samples collected from monitor wells POGW-14, -15, -16, -19, -21, -22, and -24B and piezometer POPW-1 indicate natural attenuation of chlorinated hydrocarbons in groundwater is occurring in the vicinity of these wells and this piezometer.

3.7 Monitor Well Construction Evaluation

The RWQCB has expressed concerns about the quality of groundwater samples collected from some fractured rock groundwater monitor wells. Specifically, the RWQCB has questioned whether monitor wells with "drowned screens" are providing representative water quality data. Groundwater levels in monitor wells installed in fractured rock aquifers generally respond differently than groundwater levels in monitor wells installed within granular aquifers. Groundwater present in fractures can exhibit pressure heads that results in a potentiometric surface higher than the top of the wells screen, resulting in a "drowned screen". When constructing monitor wells in fractured rock aquifers for the purpose of obtaining representative groundwater samples from a discrete fracture or zone of fractures, it is desirable to place a relatively short screened and filter packed interval of the monitor well to intercept the discrete water bearing fracture or zone.

To evaluate the potential impact of well construction on groundwater quality for monitor wells with "drowned screens", Geosyntec employed low-flow sampling methods as outlined in Section 5.VII.B.2 of the current San Diego County DEH SAM manual.

3.7.1 Field Procedures

Low-flow sampling methods were attempted on monitor wells with "drowned screens" (POGW-9, POGW-13, POGW-14, POGW-17B, POGW-18B, POGW-22, and piezometer POPW-1) the week following the January 2007 routine semi-annual sampling of onsite and offsite monitor wells. In addition, the RWQCB requested that the construction of downgradient monitor well POGW-11 be evaluated using low-flow sampling methods as well as the above mentioned wells. Non-dedicated bladder pumps with disposable polyethylene bladders were placed in the approximate middle of the well screen a minimum of two hours prior to purging. However, in monitor well POGW-11, the bladder pump was placed approximately one foot

above the bottom of the well due to the short length of the water column in the well at the time of sampling. Installation of a temporary bladder pump in monitor well POGW-14 was not feasible due to difficulty associated with removing the existing dedicated sampling equipment in the well.

Monitor wells POGW-9, POGW-13, POGW-17B, POGW-18B, POGW-22, and piezometer POPW-1 were purged at a rate of approximately 100 milliliters per minute (ml/min) and field parameters (pH, turbidity, specific conductance, temperature, oxidation reduction potential [ORP], and dissolved oxygen) were measured utilizing a Horbia U-22 equipped with a flow-through cell. Drawdown due to purging was monitored to establish a steady water level. The water level did not stabilize in monitor wells POGW-9 or POGW-22 and these wells are considered slow recharging wells that are unsuitable for low-flow sampling methods. Therefore, groundwater samples were not collected from monitor wells POGW-9 or POGW-22 because SAM manual guidance specifies slow recharging wells should be sampled using the methods utilized for the semi-annual monitoring event, performed one week earlier.

A field blank, consisting of deionized water transferred from its original container to a sample container in the field, was collected to evaluate the potential for airborne VOCs to impact the groundwater samples during sample collection. One field blank was collected at the landfill and submitted for laboratory analysis. The location where the field blank was collected is noted on the sample collection logs (Appendix B).

A trip blank, provided by the laboratory, was used to evaluate whether VOC contamination occurred during sample transport or storage. A trip blank consists of a deionized water samples transported to the field by sampling personnel, shipped along with the groundwater samples to the laboratory, and analyzed for the same VOCs as the groundwater samples. One trip blank was analyzed with each sample shipment to the laboratory.

An equipment blank was collected in the field, prior to use of non-dedicated sampling equipment. The equipment blank consisted of deionized water, which was poured over decontaminated sampling equipment. The equipment blank is intended to assess the thoroughness of the decontamination procedures. One equipment blank was collected and submitted for laboratory analysis for each day of sampling.

3.7.2 Analytical Results

Groundwater sample laboratory analyses were consistent with the semi-annual groundwater testing. Laboratory analytical certificates are provided in Appendix C. The following general chemistry and metals parameters were detected at concentrations exceeding the WQPSs during the January 2007 monitor well construction evaluation:

Parameter	Concentration (milligrams per liter)					
	WQPS	POGW-11	POGW-13	POGW-17B	POGW-18B	POPW-1
Chloride	314	340	-	-	-	710
Total Dissolved Solids	1115	1130	-	1130	-	2290
Sulfate	292	-	300	390	-	740
Calcium	77.23	-	-	83.9	-	195
Magnesium	80.89	82.4	-	84.8	-	260
Potassium	11.68	-	-	-	-	13.8
Sodium	150	175	232	197	227	261

- Analyte not detected at a concentration greater than the WQPS

The groundwater samples collected from monitor wells POGW-11 and POGW-18B using low-flow sampling methods did not contain detectable concentrations of VOCs, similar to the routine sampling results. Groundwater samples collected using low-flow sampling methods from monitor wells POGW-13, POGW-17B, and piezometer POPW-1 in January 2007 contained the following VOCs:

Parameter	Concentration (micrograms per liter)			
	MCL	POGW-13	POGW-17B	POPW-1
1,1-Dichloroethene	6	-	-	0.61J
1,4-Dichlorobenzene	5	-	0.29J	0.49J
Benzene	5	-	-	1.1
Chloroform	80[1]	2.2	0.32J	1.7
cis-1,2-Dichloroethene	6	-	0.66J	**330D**
Dichlorodifluoromethane	NE	-	1.5	0.90J
trans-1,2-Dichloroethene	10	-	-	7.9
Tetrachloroethene	5	-	-	0.98J
Trichloroethene	5	-	0.65J	**1000D**
Vinyl Chloride	0.5	-	-	**1.8**

Bolded values exceed the maximum contaminant level (MCL)
– Not detected at concentration greater than the method detection limit (MDL)
J – Estimated concentrations between the MDL and the reporting limit (RL)
MCL – Maximum Contaminant Level in drinking water
D – Analyte concentration was reported from analysis of the diluted sample
[1]- For total trihalomethanes (sum of bromoform, bromodichloromethane, chloroform and dibromochloromethane)

3.7.3 Discussion of Well Construction Evaluation Results

A comparison of the results of the semi-annual groundwater monitoring and the low-flow groundwater sampling events is presented in Table 3-3. Concentrations of constituents of concern (COCs) reported in groundwater samples collected from monitor wells utilizing low-flow sampling methods were generally consistent with those reported from the first quarter 2007 semi-annual monitoring event.

Groundwater sample laboratory analyses demonstrate there are insignificant differences in the results obtained using low-flow versus standard purging following SAM manual guidance, with the following exceptions:

- Chemical oxygen demand (COD) concentrations were slightly higher in samples collected from POGW-13 and -17B using standard purge techniques versus low-flow purging, but were higher in the samples (POPW-1) collected using low-flow purging versus standard purge techniques. However, COD concentrations are generally consistent with the historical range of COD concentrations in samples collected from POGW-13, -17B, and POPW-1.

- The sulfate concentration was significantly higher in the sample collected from POPW-1 using low-flow purging (740 mg/l) versus standard purge techniques (340 mg/l), but is consistent with the historic range of sulfate concentrations in samples collected from POPW-1.

- The TCE concentration in the sample collected from POPW-1 using standard purge techniques was 20% higher (1,200 µg/L) than the concentrations using low-flow purging (1,000 µg/L). However, the TCE concentrations using low-flow purging are within the historical range of samples colleted from POPW-1.

Based on these data, monitor well construction and well purging techniques appear to have an insignificant impact on groundwater quality data. The data indicate that the standard purge technique provides representative groundwater quality. Therefore, Geosyntec recommends the groundwater monitoring continue using the standard purge technique.

4. SOIL VAPOR MONITORING

4.1 General

This section describes the soil vapor monitoring program at the Poway Landfill and presents the results of soil vapor monitoring activities conducted during the first quarter 2007 monitoring period. Monitoring activities consisted of the following:

- Performing a vacuum test on 10 soil vapor wells (PVP-1, PVP-2B, PVP-3B, PVP-4B, VW-2B, VW-3B, VW-5B, VW-6B, VW-7B, and VW-9), which previously exhibited high vacuum conditions, and therefore were not previously sampled;
- Collecting soil vapor samples from 6 onsite (PVP-1A, PVP-2A, PVP-3A, PVP-4A, PVP-5, and PVP-6) and 16 offsite (VW-1A, VW-1B, VW-2A, VW-3A, VW-4A, VW-4B, VW-5A, VW-6A, VW-7A, VW-8A, VW-8B, VW-10, VW-11, VW-12, VW-13, and VW-14) soil vapor wells;
- Analyzing soil vapor samples;
- Evaluating laboratory data, and preparing this report.

The following VOCs have previously accounted for the greatest portion of the estimated vapor risk and therefore, are considered to comprise the primary COCs:

- Dichlorodifluoromethane (DCDFM, Freon 12)
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- cis-1,2-Dichloroethene (cis-1,2-DCE)
- Vinyl Chloride
- Benzene
- Ethylbenzene
- Toluene
- Total Xylenes

Soil vapor samples were collected by Geosyntec on 22 and 23 January 2007. Soil vapor samples were analyzed by Air Toxics Ltd. in Folsom, California. A description of the soil vapor sampling and laboratory analytical methods is included in Appendix A.

4.2 Soil Vapor Monitoring Network

Currently, there are ten onsite soil vapor wells outside the waste footprint, six additional onsite soil vapor wells along the toe of the landfill (four installed within the waste and two installed below the waste), and twenty-two offsite soil vapor wells for the Poway landfill. The six soil vapor wells along the toe of the landfill were installed to sample landfill gas in the waste and soil vapor below the waste during the initial sampling event and are not sampled as part of the monitoring network. Additionally, four of the downgradient onsite and six of the downgradient offsite soil vapor wells routinely exhibit high vacuum conditions and soil vapor samples cannot be collected. The soil vapor monitoring network is summarized as follows:

Well Name	Depth (feet bgs)	Purpose
PVP-5	5	Background Soil Vapor Well
PVP-6	5	Background Soil Vapor Well
PVP-1A	9	Downgradient Onsite Soil Vapor Well
PVP-2A	8	Downgradient Onsite Soil Vapor Well
PVP-3A	10	Downgradient Onsite Soil Vapor Well
PVP-4A	8	Downgradient Onsite Soil Vapor Well
VW-1A	10	Downgradient Offsite Soil Vapor Well
VW-1B	5	Downgradient Offsite Soil Vapor Well
VW-2A	5	Downgradient Offsite Soil Vapor Well
VW-3A	5	Downgradient Offsite Soil Vapor Well
VW-4A	5	Downgradient Offsite Soil Vapor Well
VW-4B	10	Downgradient Offsite Soil Vapor Well
VW-5A	5	Downgradient Offsite Soil Vapor Well
VW-6A	5	Downgradient Offsite Soil Vapor Well
VW-7A	5	Downgradient Offsite Soil Vapor Well
VW-8A	5	Downgradient Offsite Soil Vapor Well
VW-8B	10	Downgradient Offsite Soil Vapor Well
VW-10	5	Downgradient Offsite Soil Vapor Well
VW-11	5	Downgradient Offsite Soil Vapor Well
VW-12	5	Downgradient Offsite Soil Vapor Well
VW-13	5	Downgradient Offsite Soil Vapor Well
VW-14	5	Downgradient Offsite Soil Vapor Well

On 8 January 2007, the wells which have previously exhibited high vacuum conditions were pressure tested to determine if a vapor sample could be obtained. The test consisted of connecting each soil vapor well to a Magnehelic gauge and applying a vacuum. Based on previous experience, if a vacuum of greater than 100 inches of water column is developed, a

soil vapor sample cannot be collected. A vacuum of greater than 100 inches of water was developed in each of the soil vapor wells; therefore soil vapor samples were not collected from soil vapor wells PVP-1, PVP-2B, PVP-3B, PVP-4B, VW-2B, VW-3B, VW-5B, VW-6B, VW-7B, and VW-9 during the January 2007 sampling event.

4.3 Soil Vapor Monitoring Parameters

Soil vapor sampling and testing procedures were conducted in general accordance with DTSC soil vapor sampling advisory [DTSC, 2003]. Vapor samples were collected from the soil vapor wells and analyzed as follows:

Parameter	EPA Method
Volatile Organic Compounds (VOCs) (including carbon disulfide, trans-1,4-dichloro-2-butene, and methyl iodide)	Modified TO-15
Fixed Gases	Field Methods

4.4 Soil Vapor Analytical Results

The soil vapor wells were purged and sampled on 22 and 23 January 2007. Soil vapor sample collection logs are provided in Appendix B. Certificates of analysis and chain-of-custody documents are presented in Appendix C. Table 4-1 presents the soil vapor analytical results including QA/QC sample results for the first quarter 2007 monitoring event. The following sub-sections summarize the results of the onsite and offsite soil vapor sampling conducted on 22 and 23 January 2007.

4.4.1 Background Soil Vapor Wells

Soil vapor samples collected from background soil vapor wells PVP-5 and PVP-6 during the January 2007 event did not contain COCs at concentrations greater than respective reporting limits (RLs). However, acetone was detected at a concentration of 4.6 parts per billion by volume (ppbv) in the sample collected from PVP-6.

Fixed gases were measured in the field using a Landtech GEM 2000 landfill gas meter and recorded on the soil vapor sample collection logs (Appendix B). Fixed gas concentrations in the soil vapor purged from the background soil vapor wells were consistent with native soil vapor concentrations and the concentrations measured during the April, May, and July 2006 sampling events [Geosyntec, 2006b].

4.4.2 Property Boundary Soil Vapor Wells

Soil vapor samples collected from soil vapor wells along the southern property boundary (PVP-1A. PVP-2A, PVP-3A, and PVP-4A) along with a duplicate sample collected in the field during the January 2007 sampling event contained the following COCs:

- DCDFM (Freon 12) at concentrations ranging from 6.7 to 49 ppbv (3 of 5 samples);
- PCE at concentrations ranging from 1.1 to 2.5 ppbv (3 of 5 samples);
- Ethylbenzene at concentrations ranging from 2.7 to 2.9 ppbv (2 of 5 samples);
- Toluene at concentrations ranging from 4.0 to 5.9 ppbv (2 of 5 samples); and
- Total xylenes at concentrations ranging from 5.5 to 15.7 ppbv (2 of 5 samples).

No other COCs were detected at concentrations greater than their respective detection limits.

Fixed gas concentrations in the soil vapor purged from the onsite soil vapor wells along the south property boundary were consistent with native soil vapor concentrations and the concentrations measured during the April, May, and July 2006 sampling events [Geosyntec, 2006b].

4.4.3 Offsite Soil Vapor Wells

Soil vapor samples collected from soil vapor wells offsite (VW-1A, VW-1B, VW-2A, VW-3A, VW-4A, VW-4B, VW-5A, VW-6A, VW-7A, VW-8A, VW-8B, VW-10, VW-11, VW-12, VW-13, and VW-14) within the residential area south of the site along with a duplicate sample collected in the field during the January 2007 sampling event contained the following COCs:

- DCDFM (Freon 12) at concentrations ranging from 1.2 to 24 ppbv (8 of 17 samples);
- PCE at concentrations ranging from 3.6 to 60 ppbv (4 of 17 samples);
- Benzene at a concentration of 1.3 ppbv (1 of 17 samples);
- Toluene at a concentration of 2.6 ppbv (1 of 17 samples);
- Ethylbenzene at a concentration of 1.5 ppbv (1 of 17 samples); and
- Total xylenes at concentrations ranging from 1.6 to 2.6 ppbv (3 of 17 samples).

No other COCs were detected at concentrations greater than their respective detection limits.

Fixed gas concentrations in the soil vapor purged from the offsite soil vapor wells within the residential area south of the site were consistent with native soil vapor concentrations and the

concentrations measured during the April, May, and July 2006 sampling events [Geosyntec, 2006b].

4.5 Discussion of Soil Vapor Data

VOC concentrations in soil vapor samples collected from onsite and offsite soil vapor wells during January 2007 were generally within or below the range of concentrations observed during the April, May, and July 2006 sampling events [Geosyntec, 2006b]. The frequency of detections of COCs in the January 2007 sampling event has generally decreased since the April, May, and July 2006 sampling events. PCE concentrations have declined in onsite and offsite soil vapor wells since the July 2006 monitoring event. During the January 2007 sampling event TCE was not detected at concentrations greater than the RL (the RL ranged from 1.0 to 1.3 ppbv) in soil vapor samples collected onsite or offsite. TCE concentrations in onsite and offsite soil vapor samples have generally decreased since the April and May 2006 sampling events. Onsite and offsite soil vapor fixed gas concentrations were generally consistent with native soil vapor concentrations. Historical soil vapor concentrations of the primary risk driving COC are summarized in Table 4-2.

The estimated vapor risk calculated from the April and May 2006 data were below levels of concern according to DTSC, DEH, and USEPA. Additionally, the concentrations observed during the January 2007 sampling event were consistent with or lower than concentrations observed during the April and May 2006 sampling events. Therefore, the estimated risk can be reasonably expected to be consistent with or less than estimated risk from the April and May 2006 sampling events. Based on these data, the estimated vapor risk for the January 2007 data is below levels of concern according to DTSC, DEH, and USEPA.

5. ANNUAL SUMMARY

This section contains a discussion of the compliance record and summarizes results of the 2006 annual groundwater and soil vapor monitoring period at the Poway Landfill. This section also discusses any changes noted during the monitoring period with respect to the monitoring results and monitoring network.

Groundwater elevations at the site are within historical ranges (Figure 3-1). However, since the first quarter 2006 monitoring event, groundwater elevation decreases site wide ranged from 2.10 feet to greater than 8.19 feet in monitor wells POGW-10 and POGW-18A, respectively. Consistent with previous results, groundwater is interpreted to flow generally to the south at an average hydraulic gradient ranging from 0.03 to 0.19 feet per foot (ft/ft) (Figure 2-1).

5.1 Summary of Groundwater Monitoring Data

General chemistry parameters, metal parameters, and VOC concentrations in groundwater samples collected at the site are generally within the historical range of concentrations and remained relatively stable with the following exceptions:

- Increasing concentrations of chemical oxygen demand in groundwater samples collected from monitor wells POGW-13, -14, -17B, -19, -20, -21, and -22 since July 2006;
- Decreases in pH in the groundwater samples collected from monitor wells POGW-16 and -21 to levels below the lower WQPS since July 2006; and
- A detection of concentrations of bromodichloromethane in the groundwater sample collected from monitor well POGW-22 in January 2007.

5.2 Summary of Soil Vapor Monitoring Data

VOC concentrations in soil vapor samples collected during the first quarter 2007 sampling event were generally similar to or less than concentrations measured during the April, May, and July 2006 sampling events. Because the estimated risk calculated using the April and May 2006 data did not exceed established regulatory acceptable risk levels and the similarity of the third quarter 2006 and first quarter 2007 soil vapor data to the April and May 2006 soil vapor data, updating the human health risk assessment is not warranted at this time. Time series plots for the primary COCs (onsite and offsite PCE, TCE, and benzene) are provided in Appendix D.

5.3 Summary of Monitor Well Construction Evaluation

The concentrations of COCs reported in groundwater samples collected utilizing low-flow sampling methods are consistent with those reported in the first quarter 2007 routine semi-annual sampling event and previous monitoring events using standard purging techniques. Therefore, it appears that current sampling methods utilized in the routine semi-annual monitoring events yield representative groundwater quality data and modifying sampling methods to incorporate low-flow sampling is not warranted. Furthermore, time-series plots (Appendix D) demonstrate that the fractured rock monitor wells with "drowned screens" yield consistent data indicating the wells, as constructed, are suitable for water quality monitoring. Based on the comparison of purging methods presented herein, Geosyntec will continue using standard purging and sampling methods for future routine semi-annual groundwater monitoring events.

5.4 Summary of Changes

Additional assessment of the landfill gas extraction system is on-going. In December 2005 Geosyntec prepared an updated Report of Waste Discharge (ROWD) and Engineering Feasibility Study (EFS) for the site [Geosyntec, 2005]. The ROWD and EFS presented recommendations for remedial action as well as updates to the LFG extraction system. To address recommendations presented in the ROWD and EFS the following have been performed at the site:

- In April and June 2006, four additional groundwater monitor wells (POGW-19, POGW-20, POGW-21, and POGW-22) were installed west of the site and along the south property boundary;
- In March 2006, eight downgradient onsite soil vapor wells, six soil vapor wells along the toe of the landfill, and two onsite background soil vapor wells were installed;
- In March 2006, twenty two downgradient offsite soil vapor wells were installed; and
- In November 2006, three additional groundwater monitor wells (POGW-23, POGW-24A, and POGW-24B) were installed west and south of the site.

5.5 Compliance Record

Revised WQPSs were re-submitted to the RWQCB in May 2000 [Geosyntec, 2000a]. For sites in evaluation monitoring where impacts are known or suspected, the use of statistical limits calculated from background wells will result in routine exceedences, which in turn, indicate the need for evaluation monitoring. While statistical limits can be established as a reference standard, an alternative method of evaluating the monitoring data is recommended. Geosyntec

understands that the County will continue to work with RWQCB staff to develop an acceptable approach for assessing monitoring results.

The County has requested that monitor wells POGW-10 and POGW-12 be converted to piezometers and not be sampled semi-annually [Geosyntec, 2000b]. The RWQCB has not responded to this request. The County also installed monitor well POGW-16 west of monitor well POGW-15 to improve the coverage of the existing groundwater monitoring system. The County requested that monitor well POGW-16 be added to the detection monitoring program in August 2004. The RWQCB has not responded to this request.

On 10 March 2006, the RWQCB issued Notice of Violation (NOV) R9-2006-0035 [RWQCB, 2006b]. Based on their review and interpretation of the available data, the RWQCB concluded the conditions have resulted in violations of Order No. 94-165:

- Discharge of waste constituents to groundwater creating a condition of pollution and/or nuisance in violation of the Basin Plan Waste Discharge Prohibitions;
- Off-site migration of VOCs in groundwater and landfill gas beyond the limits of the landfill property;
- The current waste containment system did not prevent discharge of waste to groundwater, offsite migration of soluble waste in groundwater, and control of landfill gas migration.

In response to the NOV, the County prepared and issued notices to residents living near the landfill; coordinated a community meeting attended by representatives of the County, the LEA, and the RWQCB in March 2006; and directed Geosyntec to implement a work plan to address the items listed in NOV R9-2006-0035 [Geosyntec, 2006a]. The results of the first two soil vapor sampling events were presented in a report dated 30 June 2006 [Geosyntec, 2006b] and the results of the third soil vapor sampling event were reported in the third quarter 2006 semi-annual report [Geosyntec, 2006c]. The results of the first three sampling events were presented to the public in a community meeting attended by representatives of the County, the LEA, and the RWQCB in August 2006. It is our understanding that the LEA will post the January 2007 results on the Poway Landfill website. Further, a summary of well installation, the cover evaluation, and soil vapor sampling will be provided in an Updated Site Conceptual Model report to be submitted during the second quarter of 2007.

The groundwater and soil vapor monitoring data, laboratory test data[1], and a copy of the final report for this monitoring period for the Poway Landfill site were electronically submitted to

1 Confirmation numbers for upload of groundwater and soil vapor analytical data into Geotracker are 6606159627, 7366818010, 4960607767, 4677105784, 1824742794, and 5824832677 submitted on 2/23/2007 and 3/5/2007.

the State Water Board's internet-accessible database system, Geotracker. This information was submitted to the Geotracker database in accordance with Chapter 30, Division 3, Titles 23 & 27 of the California Code of Regulations on the date that this report was finalized.

6. REFERENCES

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TABLES

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POPW-1	724.07	04/18/03	116.00	94.46	629.61
		04/23/03	116.00	92.89	631.18
		05/05/03	116.00	92.12	631.95
		05/12/03	116.00	91.80	632.27
		05/15/03	116.00	91.74	632.33
		06/17/03	116.00	91.10	632.97
		08/26/03	116.00	90.50	633.57
		03/15/04	116.00	91.74	632.33
		06/04/04	116.00	91.67	632.40
		08/19/04	116.00	92.74	631.33
		01/24/05	116.00	85.50	638.57
		07/19/05	116.00	75.58	648.49
		01/18/06	116.00	77.48	646.59
		06/01/06	116.00	79.09	644.98
		07/17/06	116.00	78.86	645.21
		01/17/07	116.00	80.27	643.80
POPW-2A	722.74	04/18/03	121.00	113.05	609.69
		04/23/03	121.00	103.62	619.12
		05/05/03	121.00	97.40	625.34
		05/12/03	121.00	96.01	626.73
		05/15/03	121.00	95.87	626.87
		06/17/03	121.00	95.72	627.02
		08/26/03	121.00	95.53	627.21
		03/15/04	121.00	96.63	626.11
		06/04/04	121.00	96.46	626.28
		08/19/04	121.00	96.91	625.83
		01/24/05	121.00	88.55	634.19
		07/19/05	121.00	80.20	642.54
		01/18/06	121.00	80.32	642.42
		06/01/06	121.00	80.54	642.20
		07/17/06	121.00	80.49	642.25
		01/17/07	121.00	81.65	641.09
POPW-2B	722.75	04/18/03	155.00	95.10	627.65
		04/23/03	155.00	94.93	627.82
		05/05/03	155.00	95.45	627.30
		05/12/03	155.00	94.92	627.83
		05/15/03	155.00	94.98	627.77
		06/17/03	155.00	95.01	627.74
		08/26/03	155.00	94.78	627.97
		03/15/04	155.00	96.09	626.66
		06/04/04	155.00	95.88	626.87
		08/19/04	155.00	96.37	626.38
		01/24/05	155.00	95.10	627.65
		07/19/05	155.00	79.33	643.42
		01/18/06	155.00	77.88	644.87
		06/01/06	155.00	78.09	644.66
		07/17/06	155.00	78.23	644.52
		01/17/07	155.00	80.00	642.75
POPW-3	724.71	04/18/03	121.00	112.76	611.95
		04/23/03	121.00	105.54	619.17
		05/05/03	121.00	97.61	627.10
		05/12/03	121.00	90.92	633.79
		05/15/03	121.00	88.84	635.87
		06/17/03	121.00	76.65	648.06
		08/26/03	121.00	71.20	653.51
		03/15/04	121.00	71.84	652.87
		06/04/04	121.00	71.39	653.32
		08/19/04	121.00	72.38	652.33
		01/24/05	121.00	69.05	655.66
		07/19/05	121.00	51.86	672.85
		01/18/06	121.00	55.86	668.85
		06/01/06	121.00	78.05	646.66
		07/17/06	121.00	63.28	661.43
		01/17/07	121.00	60.67	664.04

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POPW-4	706.49	04/18/03	113.50	95.77	610.72
		04/23/03	113.50	95.81	610.68
		05/05/03	113.50	95.98	610.51
		05/12/03	113.50	95.97	610.52
		05/15/03	113.50	96.08	610.41
		06/17/03	113.50	96.45	610.04
		08/26/03	113.50	96.52	609.97
		03/15/04	113.50	97.70	608.79
		06/04/04	113.50	97.85	608.64
		08/19/04	113.50	98.40	608.09
		01/24/05	113.50	97.85	608.64
		07/19/05	113.50	82.43	624.06
		01/18/06	113.50	80.04	626.45
		06/01/06	113.50	79.58	626.91
		07/17/06	113.50	79.70	626.79
		01/17/07	113.50	80.81	625.68
POGW-6	695.35	02/01/91	35.26	17.26	678.09
		02/05/91	35.00	17.30	678.05
		04/11/91	35.30	12.70	682.65
		07/22/91	35.25	13.17	682.18
		10/16/91	34.90	14.43	680.92
		12/20/93	35.00	5.35	690.00
		05/03/94	35.00	4.92	690.43
		11/22/94	35.30	8.00	687.35
		09/29/95	35.30	4.12	691.23
		02/22/96	35.30	5.70	689.65
		08/15/96	35.30	7.85	687.50
		02/13/97	35.30	5.95	689.40
		08/26/97	35.30	9.24	686.11
		02/18/98	35.30	6.28	689.07
		08/27/98	35.30	3.94	691.41
		03/01/99	35.30	5.26	690.09
		09/02/99	35.30	8.93	686.42
		02/28/00	35.30	9.73	685.62
		08/02/00	35.30	11.78	683.57
		02/05/01	35.30	14.83	680.52
		07/31/01	34.60	12.61	682.74
		02/15/02	34.60	15.72	679.63
		08/02/02	34.60	17.19	678.16
		01/31/03	34.60	19.69	675.66
		03/11/03	34.60	15.56	679.79
		03/19/03	34.60	14.42	680.93
		07/25/03	34.60	14.60	680.75
		08/26/03	34.60	15.34	680.01
		03/15/04	34.60	16.07	679.28
		06/04/04	34.60	15.63	679.72
		08/19/04	34.60	17.06	678.29
		01/24/05	34.60	11.32	684.03
		07/19/05	34.60	4.36	690.99
		01/18/06	34.60	5.45	689.90
		06/01/06	34.60	5.80	689.55
		07/17/06	34.60	6.47	688.88
		01/17/07	34.60	7.95	687.40

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-7	721.45	02/01/91	163.40	88.40	633.05
		02/05/91	163.45	91.25	630.20
		04/11/91	163.50	89.10	632.35
		07/22/91	163.45	86.33	635.12
		10/15/91	163.55	85.51	635.94
		12/20/93	160.00	73.11	648.34
		05/03/94	160.00	74.58	646.87
		11/08/94	160.00	76.72	644.73
		08/10/95	160.00	70.52	650.93
		02/22/96	160.00	74.45	647.00
		08/15/96	160.00	76.55	644.90
		02/13/97	160.00	77.70	643.75
		08/26/97	160.00	77.00	644.45
		02/19/98	160.00	77.75	643.70
		08/27/98	160.00	69.66	651.79
		03/01/99	160.00	73.25	648.20
		09/02/99	160.00	75.57	645.88
POGW-8	619.77	02/01/91	59.80	36.55	583.22
		02/05/91	60.25	36.50	583.27
		04/11/91	60.20	36.90	582.87
		07/22/91	60.26	36.74	583.03
		10/15/91	60.30	36.70	583.07
		12/20/93	58.00	16.33	603.44
		05/03/94	58.00	16.42	603.35
		11/08/94	60.31	19.35	600.42
		08/10/95	60.13	11.08	608.69
POGW-9	725.05	02/22/96	83.50	37.45	687.60
		08/15/96	83.50	40.45	684.60
		02/13/97	83.50	40.67	684.38
		08/26/97	83.50	43.07	681.98
		02/18/98	83.50	43.47	681.58
		08/27/98	83.50	30.27	694.78
		03/01/99	83.50	36.83	688.22
		09/02/99	83.50	40.15	684.90
		02/28/00	83.50	42.97	682.08
		08/02/00	83.50	44.87	680.18
		02/05/01	83.50	48.20	676.85
		07/31/01	84.36	47.11	677.94
		02/15/02	84.36	50.46	674.59
		08/02/02	84.36	52.38	672.67
		01/31/03	84.36	53.48	671.57
		03/11/03	84.36	53.50	671.55
		03/19/03	84.36	53.35	671.70
		07/25/03	84.36	51.50	673.55
		08/26/03	84.36	51.88	673.17
		03/15/04	84.36	52.15	672.90
		06/04/04	84.36	52.39	672.66
		08/19/04	84.36	53.27	671.78
		01/24/05	84.36	52.10	672.95
		07/19/05	84.36	43.75	681.30
		01/18/06	84.36	36.32	688.73
		06/01/06	84.36	37.98	687.07
		07/17/06	84.36	38.86	686.19
		01/17/07	84.36	40.81	684.24

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-10	710.56	02/22/96	52.60	41.00	669.56
		08/15/96	52.60	45.25	665.31
		02/13/97	52.60	46.08	664.48
		08/26/97	52.60	44.07	666.49
		02/19/98	52.60	47.31	663.25
		08/27/98	52.60	28.87	681.69
		03/01/99	52.60	38.80	671.76
		09/02/99	52.60	43.48	667.08
		02/28/00	52.60	46.05	664.51
		08/02/00	52.60	46.10	664.46
		02/05/01	52.60	49.65	660.91
		07/31/01	53.86	43.92	666.64
		02/15/02	53.86	47.02	663.54
		08/02/02	53.86	49.12	661.44
		01/31/03	53.86	52.52	658.04
		03/11/03	53.86	53.30	657.26
		03/19/03	53.86	53.26	657.30
		07/25/03	53.86	47.95	662.61
		08/26/03	53.86	47.21	663.35
		03/15/04	53.86	48.95	661.61
		06/04/04	53.86	48.82	661.74
		08/19/04	53.86	49.62	660.94
		01/24/05	53.86	39.65	670.91
		07/19/05	53.86	28.75	681.81
		01/18/06	53.86	38.21	672.35
		06/01/06	53.86	41.31	669.25
		07/17/06	53.86	42.23	668.33
		01/17/07	53.86	40.31	670.25
POGW-11	628.71	04/09/96	54.20	43.35	585.36
		08/15/96	54.20	45.18	583.53
		02/13/97	54.20	44.11	584.60
		08/26/97	54.20	46.40	582.31
		02/18/98	54.20	43.07	585.64
		08/27/98	54.20	38.10	590.61
		03/01/99	54.20	42.54	586.17
		09/02/99	54.20	44.90	583.81
		02/28/00	54.20	47.53	581.18
		08/02/00	54.20	48.43	580.28
		02/05/01	54.20	51.79	576.92
		07/31/01	54.20	48.46	580.25
		02/15/02	54.20	48.50	580.21
		08/02/02	54.20	51.38	577.33
		01/31/03	54.20	52.22	576.49
		03/11/03	54.20	51.78	576.93
		03/19/03	54.20	51.68	577.03
		07/25/03	54.20	49.10	579.61
		08/26/03	54.20	49.38	579.33
		03/15/04	54.20	51.13	577.58
		06/04/04	54.20	51.05	577.66
		08/19/04	54.20	51.69	577.02
		01/24/05	54.20	47.81	580.90
		07/19/05	54.20	42.00	586.71
		01/18/06	54.20	46.71	582.00
		06/01/06	54.20	45.42	583.29
		07/17/06	54.20	48.81	579.90
		01/17/07	54.20	50.99	577.72

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-12	594.72	02/22/96	15.80	10.10	584.62
		08/15/96	15.80	11.95	582.77
		02/13/97	15.80	10.25	584.47
		08/26/97	15.80	12.48	582.24
		02/19/98	15.80	10.63	584.09
		08/27/98	15.80	7.51	587.21
		03/01/99	15.80	9.00	585.72
		09/02/99	15.80	10.76	583.96
		03/06/00	15.80	12.32	582.40
		08/02/00	15.80	11.41	583.31
		02/05/01	15.80	13.26	581.46
		07/31/01	15.76	9.16	585.56
		02/15/02	15.76	9.67	585.05
		08/02/02	15.76	9.41	585.31
		01/31/03	15.76	9.83	584.89
		03/11/03	15.76	8.92	585.80
		03/19/03	15.76	8.72	586.00
		07/25/03	15.76	9.12	585.60
		08/26/03	15.76	9.52	585.20
		03/15/04	15.76	9.73	584.99
		06/04/04	15.76	9.53	585.19
		08/19/04	15.76	10.12	584.60
		01/24/05	15.76	7.03	587.69
		07/19/05	15.76	11.19	583.53
		01/18/06	15.76	13.33	581.39
		06/01/06	15.76	11.89	582.83
		07/17/06	15.76	11.86	582.86
		01/17/07	15.76	DRY	-
POGW-13	594.88	02/22/96	52.60	12.20	582.68
		08/15/96	52.60	13.90	580.98
		02/13/97	52.60	13.22	581.66
		08/26/97	52.60	14.40	580.48
		02/19/98	52.60	12.83	582.05
		08/27/98	52.60	7.25	587.63
		03/01/99	52.60	10.46	584.42
		09/02/99	52.60	12.49	582.39
		02/28/00	52.60	14.96	579.92
		08/02/00	52.60	15.61	579.27
		02/05/01	52.60	18.46	576.42
		07/31/01	52.52	15.07	579.81
		02/15/02	52.52	16.64	578.24
		08/01/02	52.52	17.54	577.34
		01/31/03	52.52	17.91	576.97
		03/11/03	52.52	17.91	576.97
		03/19/03	52.52	17.00	577.88
		07/25/03	52.52	15.57	579.31
		08/26/03	52.52	15.70	579.18
		03/15/04	52.52	16.04	578.84
		06/04/04	52.52	16.54	578.34
		08/19/04	52.52	17.06	577.82
		01/24/05	52.52	12.90	581.98
		07/19/05	52.52	10.28	584.60
		01/18/06	52.52	14.30	580.58
		06/01/06	52.52	15.11	579.77
		07/17/06	52.52	15.54	579.34
		01/17/07	52.52	17.94	576.94

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Geosyntec consultants

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-14	722.61	02/28/00	226.60	87.33	635.28
		08/02/00	226.60	88.35	634.26
		02/05/01	226.60	91.79	630.82
		07/31/01	225.68	90.31	632.30
		02/15/02	225.68	94.05	628.56
		08/02/02	225.68	96.90	625.71
		01/31/03	225.68	99.41	623.20
		03/11/03	225.68	99.78	622.83
		03/19/03	225.68	99.76	622.85
		07/25/03	225.68	98.88	623.73
		08/26/03	225.68	99.09	623.52
		03/15/04	225.68	99.18	623.43
		06/04/04	225.68	99.87	622.74
		08/19/04	225.68	100.86	621.75
		01/24/05	225.68	99.14	623.47
		07/19/05	225.68	82.83	639.78
		01/18/06	225.68	83.66	638.95
		07/17/06	225.68	83.80	638.81
		01/17/07	225.68	85.44	637.17
POGW-15	606.60	07/31/01	24.29	13.75	592.85
		02/15/02	24.29	16.78	589.82
		08/02/02	24.29	18.69	587.91
		01/31/03	24.29	20.17	586.43
		03/11/03	24.29	19.69	586.91
		03/19/03	24.29	19.77	586.83
		07/25/03	24.29	19.21	587.39
		08/26/03	24.29	19.39	587.21
		03/15/04	24.29	19.39	587.21
		06/04/04	24.29	20.72	585.88
		08/19/04	24.29	21.19	585.41
		01/24/05	24.29	12.58	594.02
		07/19/05	24.29	9.86	596.74
		01/18/06	24.29	13.05	593.55
		06/01/06	24.29	13.71	592.89
		07/17/06	24.29	14.26	592.34
		01/17/07	24.29	16.64	589.96
POGW-16	643.49	06/04/04	69.50	59.29	584.20
		06/30/04	69.50	59.40	584.09
		07/26/04	69.50	59.41	584.08
		08/19/04	69.50	59.92	583.57
		01/24/05	69.50	56.69	586.80
		07/19/05	69.50	48.80	594.69
		01/18/06	69.50	51.69	591.80
		06/01/06	69.50	52.46	591.03
		07/17/06	69.50	52.92	590.57
		01/17/07	69.50	55.07	588.42
POGW-17A	602.64	07/19/05	18.50	14.08	588.56
		01/18/06	18.50	17.85	584.79
		06/01/06	18.50	15.96	586.68
		07/17/06	18.50	17.03	585.61
		01/17/07	18.50	DRY	-
POGW-17B	602.50	07/19/05	45.00	16.56	585.94
		01/18/06	45.00	20.54	581.96
		06/01/06	45.00	21.63	580.87
		07/17/06	45.00	22.07	580.43
		01/17/07	45.00	24.30	578.20
POGW-18A	616.42	07/19/05	18.00	6.77	609.65
		01/18/06	18.00	9.81	606.61
		06/01/06	18.00	9.41	607.01
		07/17/06	18.00	10.92	605.50
		01/17/07	18.00	DRY	-
POGW-18B	616.54	07/19/05	45.00	18.05	598.49
		01/18/06	45.00	24.54	592.00
		06/01/06	45.00	24.50	592.04
		07/17/06	45.00	25.21	591.33
		01/17/07	45.00	28.00	588.54

Table 2-1
Summary of Groundwater Depths and Elevations
Poway Landfill
Poway, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-19	652.62	05/05/06	85.40	70.15	582.47
		06/01/06	85.40	70.29	582.33
		07/17/06	85.40	70.90	581.72
		01/17/07	85.40	71.98	580.64
POGW-20	620.00	05/05/06	43.00	26.75	593.25
		06/01/06	43.00	26.78	593.22
		07/17/06	43.00	27.39	592.61
		01/17/07	43.00	30.09	589.91
POGW-21	617.92	05/05/06	32.90	23.60	594.32
		06/01/06	32.90	23.82	594.10
		07/17/06	32.90	24.29	593.63
		01/17/07	32.90	26.62	591.30
POGW-22	773.86	07/17/06	200.00	140.68	633.18
		01/17/07	200.00	141.56	632.30
POGW-23	609.50	12/11/06	40.00	32.00	577.50
		01/17/07	40.00	31.99	577.51
POGW-24A	604.23	12/11/06	19.60	17.75	586.48
		01/17/07	19.60	18.51	585.72
POGW-24B	604.17	12/11/06	45.10	18.38	585.79
		01/17/07	45.10	18.90	585.27

ft MSL - Feet above Mean Sea Level.
ft toc - Feet below top of casing.

Table 3-1
Summary of Regulatory Standards
Poway Landfill
Poway, California

Geosyntec consultants

Constituent	Units	Basin Plan WQO for Groundwater	WQPS	Water Quality Standard	Reference
Volatile Organic Compounds (VOCs) by EPA Method 8260					
Acetone	µg/l	NE	ND	5500	PRG, EPA
Acetonitrile	µg/l	NE	ND	100	PRG, EPA
Acrolein (Propenal)	µg/l	NE	ND	0.042	PRG, EPA
Acrylonitrile	µg/l	NE	ND	0.011	PRG, EPA
Allyl chloride	µg/l	NE	ND	10	PRG, EPA
Benzene	µg/l	1	ND	1	Primary MCL, DHS
Benzyl chloride	µg/l	NE	ND	0.066	PRG, EPA
Bromobenzene	µg/l	NE	ND	20	PRG, EPA
Bromochloromethane	µg/l	NE	ND	10	SNARL, EPA
Bromodichloromethane	µg/l	80 [1]	ND	80 [1]	Primary MCL, EPA
Bromoform	µg/l	80 [1]	ND	80 [1]	Primary MCL, EPA
Bromomethane	µg/l	NE	ND	8.7	PRG, EPA
2-Butanone (MEK)	µg/l	NE	ND	7000	PRG, EPA
n-Butylbenzene	µg/l	NE	ND	260	Notification Level, DHS
sec-Butylbenzene	µg/l	NE	ND	260	Notification Level, DHS
tert-Butylbenzene	µg/l	NE	ND	260	Notification Level, DHS
Carbon Disulfide	µg/l	NE	ND	160	Notification Level, DHS
Carbon Tetrachloride	µg/l	0.5	ND	0.5	Primary MCL, DHS
Chlorobenzene	µg/l	70	ND	70	Primary MCL, DHS
Chloroethane	µg/l	NE	ND	4.6	PRG, EPA
2-Chloroethyl vinyl ether	µg/l	NE	ND	NE	Not Established
Chloroform	µg/l	80 [1]	ND	80 [1]	Primary MCL, EPA
1-Chlorohexane	µg/l	NE	ND	NE	Not Established
Chloromethane	µg/l	NE	ND	3	SNARL, EPA
2-Chlorotoluene	µg/l	NE	ND	45	Notification Level, DHS
2-Chlorotoluene	µg/l	NE	ND	140	Notification Level, DHS
4-Chlorotoluene	µg/l	NE	ND	140	Notification Level, DHS
Dibromochloromethane	µg/l	80 [1]	ND	80 [1]	Primary MCL, DHS
1,2-Dibromo-3-chloropropane	µg/l	0.2	ND	0.2	Primary MCL, EPA
1,2-Dibromoethane	µg/l	0.05	ND	0.05	Primary MCL, EPA
Dichloromethane (Methylene Chloride)	µg/l	5	ND	5	Primary MCL, EPA
Dibromomethane	µg/l	NE	ND	NE	Not Established
1,2-Dichlorobenzene	µg/l	600	ND	600	Primary MCL, EPA
1,3-Dichlorobenzene	µg/l	NE	ND	600	Notification Level, DHS
1,4-Dichlorobenzene	µg/l	5	ND	5	Primary MCL, DHS
1,4-Dichloro-2-butene	µg/l	NE	ND	0.0012	PRG, EPA
cis-1,4-Dichloro-2-butene	µg/l	NE	ND	NE	Not Established
trans-1,4-Dichloro-2-butene	µg/l	NE	ND	NE	Not Established
1,2-Dichloroethane	µg/l	0.5	ND	0.5	Primary MCL, DHS
cis-1,2-Dichloroethene	µg/l	6	ND	6	Primary MCL, DHS
trans-1,2-Dichloroethene	µg/l	10	ND	10	Primary MCL, DHS
Dichlorodifluoromethane	µg/l	NE	ND	1000	Notification Level, DHS
1,1-Dichloroethane	µg/l	5	ND	5	Primary MCL, DHS

Table 3-1
Summary of Regulatory Standards
Poway Landfill
Poway, California

Geosyntec consultants

Constituent	Units	Basin Plan WQO for Groundwater	WQPS	Water Quality Standard	Reference
Volatile Organic Compounds (VOCs) by EPA Method 8260					
1,1-Dichloroethene	µg/l	6	ND	6	Primary MCL, DHS
cis-1,3-Dichloropropane	µg/l	NE	ND	NE	Not Established
1,2-Dichloropropane	µg/l	5	ND	5	Primary MCL, EPA
2,2-Dichloropropane	µg/l	NE	ND	NE	Not Established
1,1-Dichloropropene	µg/l	NE	ND	NE	Not Established
trans-1,3,-Dichloropropene	µg/l	NE	ND	NE	Not Established
1,4-Dioxane	µg/l	NE	ND	3	Notification Level, DHS
Ethyl methacrylate	µg/l	NE	ND	550	PRG, EPA
Ethylbenzene	µg/l	300	ND	300	Primary MCL, DHS
Hexachlorobutadiene	µg/l	NE	ND	0.5	IRIS, EPA
2-Hexanone	µg/l	NE	ND	NE	Not Established
Iodomethane	µg/l	NE	ND	NE	Not Established
Isopropyl Benzene	µg/l	NE	ND	770	Notification Level, DHS
Isopropyltoluene	µg/l	NE	ND	NE	Not Established
Methacrylonitrile	µg/l	NE	ND	0.7	IRIS, EPA
Methyl Isobutyl Ketone	µg/l	NE	ND	120	Notification Level, DHS
Methyl methacrylate	µg/l	NE	ND	800	SNARL, EPA
Methyl-tert-butyl-ether (MTBE)	µg/l	13	ND	13	Primary MCL, DHS
Naphthalene	µg/l	NE	ND	170	Notification Level, DHS
Pentachloroethane	µg/l	NE	ND	NE	Not Established
Propionitrile	µg/l	NE	ND	NE	Not Established
N-Propyl Benzene	µg/l	NE	ND	260	Notification Level, DHS
Styrene	µg/l	100	ND	100	Primary MCL, EPA
1,1,1,2-Tetrachloroethane	µg/l	NE	ND	0.43	PRG, EPA
1,1,2,2-Tetrachloroethane	µg/l	1	ND	1	Primary MCL, DHS
Tetrachloroethene	µg/l	5	ND	5	Primary MCL, EPA
Tetrahydrofuran	µg/l	NE	ND	1.6	PRG, EPA
Toluene	µg/l	150	ND	150	Primary MCL, DHS
1,2,3-Trichliribenzene	µg/l	NE	ND	NE	Not Established
1,3,5-Trichlorobenzene	µg/l	NE	ND	40	SNARL, EPA
1,2,4-Trichlorobenzene	µg/l	5	ND	5	Primary MCL, DHS
1,1,1-Trichloroethane	µg/l	200	ND	200	Primary MCL, EPA
1,1,2-Trichloroethane	µg/l	5	ND	5	Primary MCL, EPA
Trichloroethene	µg/l	5	ND	5	Primary MCL, DHS
Trichlorofluoromethane	µg/l	150	ND	150	Primary MCL, DHS
1,2,3-Trichloropropane	µg/l	NE	ND	0.0050	Notification Level, DHS
1,1,2-Trichlorotrifluoroethane	µg/l	1200	ND	1200	Primary MCL, DHS
1,2,4-Trimethylbenzene	µg/l	NE	ND	330	Notification Level, DHS
1,3,5-Trimethylbenzene	µg/l	NE	ND	330	Notification Level, DHS
Vinyl Acetate	µg/l	NE	ND	410	PRG, EPA
Vinyl Chloride	µg/l	0.5	ND	0.5	Primary MCL, DHS
Xylenes (Total)	µg/l	1750	ND	1750	Primary MCL, DHS

Table 3-1
Summary of Regulatory Standards
Poway Landfill
Poway, California

Geosyntec consultants

Constituent	Units	Basin Plan WQO for Groundwater	WQPS	Water Quality Standard	Reference
General Chemistry and Metals					
Bicarbonate	mg/l	NE	NE	NE	Not Established
Carbonate	mg/l	NE	NE	NE	Not Established
Chemical Oxygen Demand	mg/l	NE	55.89	NE	Not Established
Chloride	mg/l	300	314	250	Secondary MCL, EPA
Conductivity	µS/cm	NE	NE	900	Secondary MCL, EPA
Nitrate (as Nitrogen)	mg/l	10	32.8	10	Primary MCL, EPA
pH	pH units	6.5-8.5	5.47-8.28	6.5-8.5	Secondary MCL, EPA
Sulfate	mg/l	300	292	250	Secondary MCL, EPA
Total Dissolved Solids (TDS)	mg/l	750	1115	500	Secondary MCL, EPA
Metals					
Calcium, Dissolved	mg/l	NE	77.23	NE	Not Established
Magnesium, Dissolved	mg/l	NE	80.89	NE	Not Established
Potassium, Dissolved	mg/l	NE	11.68	NE	Not Established
Sodium, Dissolved	mg/l	60%*	150	NE	SNARL, EPA

* percent sodium = (Na/(Na+Ca+Mg+K))*100
DHS - California Department of Health Services
EPA - US Environmental Protection Agency
MCL - Maximum Contaminant Level for drinking water
[1]For total trihalomethanes (sum of bromoform, bromodichloromethane, chloroform, and dibromochloromethane)
mg/l - Milligrams per liter
µg/l - Micrograms per liter
µS/cm - Microsiemens per centimeter
WQO - Water Quality Objective for the Poway Hydrologic Area (6.20)
SNARL - Health Advisory or Suggested No-Adverse-Response Level
IRIS - USEPA Integrated Risk Information System
NE - Not Established
PRG - Preliminary Remediation Goals for Tap Water

References:
Regional Water Quality Control Board, 2006, *Water Quality Control Plan for the San Deigo Basin*
Regional Water Quality Control Board, Central Valley Region, *A Compilation of Water Quality Goals* , August 2003
United States Environmental Protection Agency Region IX, 2004, Preliminary Remediation Goals Table

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			Background Wells						Compliance Wells										
			POGW-6		POGW-9		POGW-10		POGW-11		POGW-12	POGW-13		POGW-14		POGW-15		POGW-16	
	UNITS	WQPS	7/17/2006	1/17/2007	7/17/2006	1/17/2007	7/17/2006	1/17/2007	7/18/2006	1/17/2007	7/18/2006	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/18/2006	1/17/2007	7/18/2006	1/18/2007
General Chemistry																			
Bicarbonate	mg/L	NE	200	198	170	164	230	208	130	146	210	210	214	160	138	340	368	370	352
Carbonate	mg/L	NE	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85
Chemical Oxygen Demand	mg/L	55.89	7.7	ND<3.5	7.7	ND<3.5	13	ND<3.5	38	ND<3.5	33	13	**83**	21	**75**	31	ND<3.5	33	**64**
Chloride	mg/L	314	220	230	110	110	94	96	**370**	**340**	100	180	170	180	180	200	270	110	140
Conductivity	µS/cm	NE	907	1397	791.5	870	1075	1049	1828	1875	1257	1550	1594	1086	962.1	1482	1730	1370	1275
Nitrate (as N)	mg/L	32.8	3.8	3.8	2.6	2.9	3.5	4.1	4.1	4.3	3.2	4.0	5.1	0.042J	0.032J	9.0	4.0	0.73	1.7
pH	pH	5.47-8.28	6.60	5.7	6.49	6.53	7.10	6.53	6.50	6.44	6.81	6.62	6.67	6.31	6.07	6.83	7.26	6.14	4.56
Sulfate	mg/L	292	130	**350**	60	150	120	**310**	160	**300**	160	240	**340**	29	66	78	170	62	130
Total Dissolved Solids (TDS)	mg/L	1115	883	857	529	520	677	672	**1240**	**1130**	880	1070	1000	575	540	940	1020	913	707
Metals, Dissolved																			
Calcium	mg/L	77.23	42.9	40.3	36.5	30.2	57.2	46.7	62.1	68.0	57.6	51.0	45.5	39.6	37.1	66.8	**84.9**	55.0	50.2
Magnesium	mg/L	80.89	51.6 B	50.5	27.9 B	26.7	35.8 B	37.0	75.5 B	77.5	46.5 B	45.3 B	44.8	37.3 B	37.6	58.0 B	71.0	**85.4 B**	76.6
Potassium	mg/L	11.68	5.76	5.55	7.74	6.86	**19.9**	**15.8**	4.38	4.10	0.858	4.46	4.53	5.77	5.50	0.944	1.12	7.90	7.86
Sodium	mg/L	150	**155 B**	**157**	88.9 B	84.8	103 B	97.1	**152 B**	**170**	127 B	**219 B**	**218**	81.4 B	80.5	147 B	**169**	85.5 B	88.8
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44
1,1,1-Trichloroethane	µg/L	ND	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35
1,1,2,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45
1,1,2-Trichloroethane	µg/L	ND	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79
1,1-Dichloroethane	µg/L	ND	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.53	ND<0.25	ND<0.53	ND<0.25	**1.9**	**3.9**	ND<0.53	ND<0.25
1,1-Dichloroethene	µg/L	ND	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	**0.91J**	ND<0.31	ND<0.26
1,1-Dichloropropene	µg/L	ND	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62
1,2,3-Trichlorobenzene	µg/L	ND	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26
1,2,3-Trichloropropane	µg/L	ND	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8
1,2,4-Trichlorobenzene	µg/L	ND	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29
1,2,4-Trimethylbenzene	µg/L	ND	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13
1,2-Dibromo-3-chloropropane	µg/L	ND	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1
1,2-Dibromoethane	µg/L	ND	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41
1,2-Dichlorobenzene	µg/L	ND	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15
1,2-Dichloroethane	µg/L	ND	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25
1,2-Dichloropropane	µg/L	ND	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55
1,3,5-Trimethylbenzene	µg/L	ND	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86
1,3-Dichlorobenzene	µg/L	ND	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15
1,3-Dichloropropane	µg/L	ND	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28
1,4-Dichlorobenzene	µg/L	ND	ND<0.30	ND<0.17	ND<0.30	ND<0.17	ND<0.30	ND<0.17	ND<0.30	ND<0.17	ND<0.30	ND<0.30	ND<0.17	ND<0.30	ND<0.17	ND<0.30	ND<0.17	**6.5**	**2.7**
2,2-Dichloropropane	µg/L	ND	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29
2-Butanone	µg/L	ND	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<4.2	ND<8.0	**20**	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0
2-Chlorotoluene	µg/L	ND	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16
2-Hexanone	µg/L	ND	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4
4-Chlorotoluene	µg/L	ND	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18
4-Methyl-2-pentanone	µg/L	ND	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0
Acetone	µg/L	ND	**13**	ND<7.0	ND<6.1	ND<7.0	**9.7J**	ND<7.0	**6.2J**	ND<7.0	ND<6.1	ND<6.1	ND<7.0	ND<6.1	ND<7.0	**8.4J**	ND<7.0	**8.7J**	ND<7.0
Acrolein	µg/L	ND	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6
Acrylonitrile	µg/L	ND	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4
Benzene	µg/L	ND	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19
Bromobenzene	µg/L	ND	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26
Bromochloromethane	µg/L	ND	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88
Bromodichloromethane	µg/L	ND	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21
Bromoform	µg/L	ND	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87
Bromomethane	µg/L	ND	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			Background Wells						Compliance Wells										
			POGW-6		POGW-9		POGW-10		POGW-11		POGW-12	POGW-13		POGW-14		POGW-15		POGW-16	
	UNITS	WQPS	7/17/2006	1/17/2007	7/17/2006	1/17/2007	7/17/2006	1/17/2007	7/18/2006	1/17/2007	7/18/2006	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/18/2006	1/17/2007	7/18/2006	1/18/2007
Volatile Organic Compounds																			
Carbon tetrachloride	µg/L	ND	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29
Chlorobenzene	µg/L	ND	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	**1.1**	**0.39J**
Chloroethane	µg/L	ND	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70
Chloroform	µg/L	ND	ND<0.22	ND<0.29	ND<0.22	ND<0.29	**0.80J**	ND<0.29	ND<0.22	ND<0.29	ND<0.22	**2.2**	**1.6**	ND<0.22	ND<0.29	ND<0.22	ND<0.29	**0.80J**	ND<0.29
Chloromethane	µg/L	ND	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1
cis-1,2-Dichloroethene	µg/L	ND	ND<0.35	ND<0.63	ND<0.35	ND<0.63	ND<0.35	ND<0.63	ND<0.35	ND<0.63	ND<0.35	ND<0.35	ND<0.63	**29**	**37**	**0.70J**	**1.3**	**19**	**13**
cis-1,3-Dichloropropene	µg/L	ND	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28
Dibromochloromethane	µg/L	ND	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39
Dibromomethane	µg/L	ND	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82
Dichlorodifluoromethane	µg/L	ND	ND<0.27	ND<0.33	ND<0.27	ND<0.33	ND<0.27	ND<0.33	ND<0.27	ND<0.33	ND<0.27	ND<0.27	ND<0.33	ND<0.27	ND<0.33	**0.83J**	**1.4**	**1.5**	**0.68J**
Ethylbenzene	µg/L	ND	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13
Hexachlorobutadiene	µg/L	ND	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93
Isopropylbenzene (Cumene)	µg/L	ND	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10
Isopropyltoluene	µg/L	ND	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14
Methylene chloride	µg/L	ND	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7
Methyl-tert-butyl-ether (MTBE)	µg/L	ND	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23
Naphthalene	µg/L	ND	ND<0.95	ND<0.42	ND<0.95	**0.47J**	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	**0.48J**
n-Butylbenzene	µg/L	ND	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25
n-Propylbenzene	µg/L	ND	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12
sec-Butylbenzene	µg/L	ND	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29
Styrene	µg/L	ND	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16
tert-Butylbenzene	µg/L	ND	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19
Tetrachloroethene	µg/L	ND	ND<0.29	ND<0.30	ND<0.29	ND<0.30	ND<0.29	ND<0.30	ND<0.29	ND<0.30	ND<0.29	ND<0.29	ND<0.30	ND<0.29	ND<0.30	**2.0**	**4.2**	**1.4**	**1.1**
Toluene	µg/L	ND	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23
trans-1,2-Dichloroethene	µg/L	ND	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83
trans-1,3-Dichloropropene	µg/L	ND	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26
Trichloroethene	µg/L	ND	ND<0.30	ND<0.31	ND<0.30	ND<0.31	ND<0.30	ND<0.31	ND<0.30	ND<0.31	ND<0.30	ND<0.30	ND<0.31	**26**	**30**	**0.56J**	**1.2**	**5.7**	**4.6**
Trichlorofluoromethane	µg/L	ND	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83
Vinyl chloride	µg/L	ND	ND<0.33	ND<0.24	ND<0.33	ND<0.24	ND<0.33	ND<0.24	ND<0.33	ND<0.24	ND<0.33	ND<0.33	ND<0.24	**6.4**	**3.2**	ND<0.33	ND<0.24	**0.41J**	ND<0.24
Xylenes, total	µg/L	ND	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27

Bolded values exceed Water Quality Protection Standards (WQPS)
mg/L - Milligrams per liter.
µg/L - Micrograms per liter.
µS/cm - Microseimens per centimeter.
ND- Not detected at concentrations greater than or equal to the method detection limit
NE - Not established.
J- Trace concentration detected between the method detection limit and the reporting limit
- Not analyzed.
D - The analyte concentration was reported from analysis of the diluted sample
B - Analyte was present in the associated method blank
QCFB - Quality Control Field Blank
QCEB - Quality Control Equipment Blank
QCTB - Quality Control Trip Blank
QCMB - Quality Control Method Blank
WQPS - Water Quality Protectioin Standard

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			Downgradient Monitoring Wells					Downgradient Monitoring Wells											Piezometer	
			POGW-17B		POGW-18A	POGW-18B		POGW-19		POGW-20		POGW-21		POGW-22		POGW-23	POGW-24A	POGW-24B	POPW-1	
	UNITS	WQPS	7/18/2006	1/18/2007	7/18/2006	7/18/2006	1/17/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	1/17/2007	1/17/2007	1/17/2007	7/17/2006	1/17/2007
General Chemistry																				
Bicarbonate	mg/L	NE	400	386	230	270	234	550	492	340	318	490	496	290	232	236	-	650	270	264
Carbonate	mg/L	NE	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	-	ND<0.85	ND<0.85	ND<0.85
Chemical Oxygen Demand	mg/L	55.89	21	**64**	31	38	ND<3.5	**67**	**170**	28	**64**	38	**110**	**56**	**94**	ND<3.5	5.0	19	33	18
Chloride	mg/L	314	260	270	100	150	120	**400**	**370**	160	180	**340**	**360**	91	83	**330**	-	**560**	**680**	**690**
Conductivity	µS/cm	NE	2121	2017	1201	1505	1339	2402	2147	1480	1396	2339	2249	8304	820.8	192.0	-	3160	3691	3601
Nitrate (as N)	mg/L	32.8	2.2	4.8	3.4	6.0	3.4	0.034J	0.16	5.2	4.1	2.0	0.30J	0.24	0.20	3.4	-	0.44	7.3	5.9
pH	pH	5.47-8.28	6.49	6.70	6.59	6.70	6.65	7.07	6.5	6.68	5.73	6.52	**5.15**	6.88	7.41	7.2	-	6.45	6.02	5.73
Sulfate	mg/L	292	260	**310**	170	210	**300**	120	260	130	140	170	270	54	76	**330**	-	**340**	**520**	**340**
Total Dissolved Solids (TDS)	mg/L	1115	**1390**	**1200**	807	**1150**	850	**1450**	**1210**	937	803	**1350**	**1310**	628	472	1110	-	**1840**	**2470**	**2510**
Metals, Dissolved																				
Calcium	mg/L	77.23	**84.3**	**83.5**	19.2	35.8	26.5	**107**	**87.0**	27	18.2	**107**	**92.6**	22.8	30.4	**95.2**	-	**137**	**179**	**176**
Magnesium	mg/L	80.89	**93.0 B**	**87.8**	36.7 B	31.8 B	26.1	**131 B**	**118**	29.2 B	26.4	**85.2 B**	**88.4**	13.7 B	18.3	73.8	-	**120**	**231 B**	**240**
Potassium	mg/L	11.68	1.99	2.00	1.10	4.58	4.20	**25.2**	**22.9**	1.52	1.23	2.16	1.54	6.42	5.87	**15.2**	-	7.73	**13.2**	**12.9**
Sodium	mg/L	150	**189 B**	**210**	135 B	**231 B**	**216**	**190 B**	**176**	**239 B**	**222**	**243 B**	**237**	148 B	109	**159**	-	**359**	**256 B**	**246**
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.44	ND<0.37	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.37	ND<0.44
1,1,1-Trichloroethane	µg/L	ND	ND<0.32	ND<0.35	ND<0.32	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.32	ND<0.35
1,1,2,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.45	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.37	ND<0.45
1,1,2-Trichloroethane	µg/L	ND	ND<0.54	ND<0.79	ND<0.54	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.54	ND<0.79
1,1-Dichloroethane	µg/L	ND	ND<0.53	ND<0.25	ND<0.53	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.25	ND<0.25	ND<0.25	**5.0**	**0.81J**	**1.0**
1,1-Dichloroethene	µg/L	ND	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.26	ND<0.26	**0.67J**	ND<0.31	**0.89J**
1,1-Dichloropropene	µg/L	ND	ND<0.21	ND<0.62	ND<0.21	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.21	ND<0.62
1,2,3-Trichlorobenzene	µg/L	ND	ND<0.39	ND<0.26	ND<0.39	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.39	ND<0.26
1,2,3-Trichloropropane	µg/L	ND	ND<2.3	ND<2.8	ND<2.3	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.3	ND<2.8
1,2,4-Trichlorobenzene	µg/L	ND	ND<0.35	ND<0.29	ND<0.35	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.35	ND<0.29
1,2,4-Trimethylbenzene	µg/L	ND	ND<0.26	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.13	ND<0.26	**0.20J**	ND<0.13	ND<0.13	ND<0.13	ND<0.26	ND<0.13
1,2-Dibromo-3-chloropropane	µg/L	ND	ND<2.5	ND<3.1	ND<2.5	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<2.5	ND<3.1
1,2-Dibromoethane	µg/L	ND	ND<0.81	ND<0.41	ND<0.81	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.81	ND<0.41
1,2-Dichlorobenzene	µg/L	ND	ND<0.24	ND<0.15	ND<0.24	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.24	ND<0.15
1,2-Dichloroethane	µg/L	ND	ND<0.22	ND<0.25	ND<0.22	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.22	ND<0.25
1,2-Dichloropropane	µg/L	ND	ND<0.28	ND<0.55	ND<0.28	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.28	ND<0.55
1,3,5-Trimethylbenzene	µg/L	ND	ND<0.19	ND<0.86	ND<0.19	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.19	ND<0.86
1,3-Dichlorobenzene	µg/L	ND	ND<0.38	ND<0.15	ND<0.38	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.38	ND<0.15
1,3-Dichloropropane	µg/L	ND	ND<0.30	ND<0.28	ND<0.30	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.30	ND<0.28
1,4-Dichlorobenzene	µg/L	ND	**0.40J**	**0.34J**	ND<0.30	ND<0.30	ND<0.17	**0.49J**	**0.97J**	ND<0.30	ND<0.17	**0.70J**	**1.2**	ND<0.30	ND<0.17	ND<0.17	ND<0.17	**1.9**	**1.2**	**1.4**
2,2-Dichloropropane	µg/L	ND	ND<0.40	ND<0.29	ND<0.40	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.40	ND<0.29
2-Butanone	µg/L	ND	ND<4.2	ND<8.0	ND<4.2	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<4.2	ND<8.0
2-Chlorotoluene	µg/L	ND	ND<0.24	ND<0.16	ND<0.24	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.24	ND<0.16
2-Hexanone	µg/L	ND	ND<1.9	ND<3.4	ND<1.9	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<1.9	ND<3.4
4-Chlorotoluene	µg/L	ND	ND<0.30	ND<0.18	ND<0.30	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.30	ND<0.18
4-Methyl-2-pentanone	µg/L	ND	ND<2.4	ND<2.0	ND<2.4	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.4	ND<2.0
Acetone	µg/L	ND	**14**	ND<7.0	ND<6.1	ND<6.1	ND<7.0	**11**	ND<7.0	**8.1J**	ND<7.0	**11**	ND<7.0	**23**	**24J**	ND<7.0	ND<7.0	ND<7.0	**13**	ND<7.0
Acrolein	µg/L	ND	ND<4.3	ND<8.6	ND<4.3	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<4.3	ND<8.6
Acrylonitrile	µg/L	ND	ND<3.6	ND<4.4	ND<3.6	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<3.6	ND<4.4
Benzene	µg/L	ND	ND<0.26	ND<0.19	ND<0.26	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.19	ND<0.19	ND<0.19	ND<0.19	**0.82**	**1.2**
Bromobenzene	µg/L	ND	ND<0.47	ND<0.26	ND<0.47	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.47	ND<0.26
Bromochloromethane	µg/L	ND	ND<0.68	ND<0.88	ND<0.68	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.68	ND<0.88
Bromodichloromethane	µg/L	ND	ND<0.27	ND<0.21	ND<0.27	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.21	ND<0.27	**1.4**	ND<0.21	ND<0.21	ND<0.21	ND<0.27	ND<0.21
Bromoform	µg/L	ND	ND<0.62	ND<0.87	ND<0.62	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.62	ND<0.87
Bromomethane	µg/L	ND	ND<2.9	ND<3.5	ND<2.9	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<2.9	ND<3.5

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			Downgradient Monitoring Wells					Downgradient Monitoring Wells											Piezometer	
			POGW-17B		POGW-18A	POGW-18B		POGW-19		POGW-20		POGW-21		POGW-22		POGW-23	POGW-24A	POGW-24B	POPW-1	
	UNITS	WQPS	7/18/2006	1/18/2007	7/18/2006	7/18/2006	1/17/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	7/17/2006	1/18/2007	1/17/2007	1/17/2007	1/17/2007	7/17/2006	1/17/2007
Volatile Organic Compounds																				
Carbon tetrachloride	µg/L	ND	ND<0.42	ND<0.29	ND<0.42	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.42	ND<0.29
Chlorobenzene	µg/L	ND	ND<0.36	ND<0.16	ND<0.36	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.16	**1.0**	ND<0.36	ND<0.16
Chloroethane	µg/L	ND	ND<0.52	ND<0.70	ND<0.52	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.52	ND<0.70
Chloroform	µg/L	ND	**0.30J**	ND<0.29	ND<0.22	**0.53J**	ND<0.29	ND<0.22	ND<0.29	ND<0.22	ND<0.29	ND<0.22	ND<0.29	**0.59J**	**1.3**	ND<0.29	ND<0.29	ND<0.29	**1.8**	**1.7**
Chloromethane	µg/L	ND	ND<1.8	ND<2.1	ND<1.8	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<1.8	ND<2.1
cis-1,2-Dichloroethene	µg/L	ND	**0.54J**	ND<0.63	ND<0.35	ND<0.35	ND<0.63	**31**	**35**	ND<0.35	ND<0.63	**5.8**	**7.1**	**1.0**	**0.83J**	ND<0.63	ND<0.63	**0.88J**	**330 D**	**280 D**
cis-1,3-Dichloropropene	µg/L	ND	ND<0.45	ND<0.28	ND<0.45	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.45	ND<0.28
Dibromochloromethane	µg/L	ND	ND<0.45	ND<0.39	ND<0.45	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.39	ND<0.45	**1.7**	ND<0.39	ND<0.39	ND<0.39	ND<0.45	ND<0.39
Dibromomethane	µg/L	ND	ND<0.42	ND<0.82	ND<0.42	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.42	ND<0.82
Dichlorodifluoromethane	µg/L	ND	**1.3**	**1.1**	ND<0.27	ND<0.27	ND<0.33	**3.9**	**4.2**	ND<0.27	**1.2**	**2.0**	**1.5**	**1.6**	ND<0.33	ND<0.33	ND<0.33	**2.5**	**0.81J**	**0.77J**
Ethylbenzene	µg/L	ND	ND<0.17	ND<0.13	ND<0.17	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.13	**0.29J**	**0.29J**	ND<0.13	ND<0.13	ND<0.13	ND<0.17	ND<0.13
Hexachlorobutadiene	µg/L	ND	ND<0.39	ND<0.93	ND<0.39	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.39	ND<0.93
Isopropylbenzene (Cumene)	µg/L	ND	ND<0.24	ND<0.10	ND<0.24	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.24	ND<0.10
Isopropyltoluene	µg/L	ND	ND<0.21	ND<0.14	ND<0.21	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.21	ND<0.14
Methylene chloride	µg/L	ND	ND<2.6	ND<9.7	ND<2.6	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<9.7	ND<9.7	ND<9.7	ND<9.7	**3.1J**	ND<9.7
Methyl-tert-butyl-ether (MTBE)	µg/L	ND	ND<0.29	ND<0.23	ND<0.29	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.29	ND<0.23
Naphthalene	µg/L	ND	ND<0.95	ND<0.42	ND<0.95	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.95	ND<0.42
n-Butylbenzene	µg/L	ND	ND<0.29	ND<0.25	ND<0.29	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.29	ND<0.25
n-Propylbenzene	µg/L	ND	ND<0.30	ND<0.12	ND<0.30	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.30	ND<0.12
sec-Butylbenzene	µg/L	ND	ND<0.21	ND<0.29	ND<0.21	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.21	ND<0.29
Styrene	µg/L	ND	ND<0.29	ND<0.16	ND<0.29	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.29	ND<0.16
tert-Butylbenzene	µg/L	ND	ND<0.17	ND<0.19	ND<0.17	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.17	ND<0.19
Tetrachloroethene	µg/L	ND	ND<0.29	ND<0.30	ND<0.29	ND<0.29	ND<0.30	**1.3**	**2.0**	ND<0.29	ND<0.30	**0.74J**	**0.56J**	ND<0.29	ND<0.30	ND<0.30	ND<0.30	**1.4**	**2.6**	**3.4**
Toluene	µg/L	ND	ND<0.35	ND<0.23	ND<0.35	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23	ND<0.35	ND<0.23	**6.2**	**8.9**	ND<0.23	ND<0.23	ND<0.23	ND<0.35	ND<0.23
trans-1,2-Dichloroethene	µg/L	ND	ND<0.29	ND<0.83	ND<0.29	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.83	ND<0.83	ND<0.83	ND<0.83	**5.3**	**1.8**
trans-1,3-Dichloropropene	µg/L	ND	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.31	ND<0.26
Trichloroethene	µg/L	ND	**0.48J**	**0.48J**	ND<0.30	ND<0.30	ND<0.31	**13**	**15**	ND<0.30	ND<0.31	**6.7**	**6.4**	**13**	**2.1**	ND<0.31	ND<0.31	**1.0**	**1100 D**	**1200 D**
Trichlorofluoromethane	µg/L	ND	ND<0.36	ND<0.83	ND<0.36	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.36	ND<0.83
Vinyl chloride	µg/L	ND	ND<0.33	ND<0.24	ND<0.33	ND<0.33	ND<0.24	ND<0.33	**0.31J**	ND<0.33	ND<0.24	ND<0.33	ND<0.24	ND<0.33	ND<0.24	ND<0.24	ND<0.24	**0.37J**	**1.6**	**2.5**
Xylenes, total	µg/L	ND	ND<0.38	ND<0.27	ND<0.38	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.27	ND<0.38	**0.84J**	ND<0.27	ND<0.27	ND<0.27	ND<0.38	ND<0.27

Bolded values exceed Water Quality Protection Standards (WQPS)

mg/L - Milligrams per liter.

µg/L - Micrograms per liter.

µS/cm - Microseimens per centimeter.

ND- Not detected at concentrations greater than or equal to the method detection limit

NE - Not established.

J- Trace concentration detected between the method detection limit and the reporting limit

- Not analyzed.

D - The analyte concentration was reported from analysis of the diluted sample

B - Analyte was present in the associated method blank

QCFB - Quality Control Field Blank

QCEB - Quality Control Equipment Blank

QCTB - Quality Control Trip Blank

QCMB - Quality Control Method Blank

WQPS - Water Quality Protectioin Standard

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			QA/QC Samples													
			QCFB				QCEB		QCTB				QCMB			
	UNITS	WQPS	7/17/2006	7/18/2006	1/17/2007	1/18/2007	7/17/2006	1/17/2007	7/17/2006	7/18/2006	1/17/2007	1/18/2007	7/17/2006	7/18/2006	1/17/2007	1/18/2007
General Chemistry																
Bicarbonate	mg/L	NE	-	-	-	-	2.3	ND<0.85	-	-	-	-	ND<0.85	ND<0.85	ND<0.85	ND<0.85
Carbonate	mg/L	NE	-	-	-	-	ND<0.85	ND<0.85	-	-	-	-	ND<0.85	ND<0.85	ND<0.85	ND<0.85
Chemical Oxygen Demand	mg/L	55.89	-	-	-	-	ND<4.6	ND<3.5	-	-	-	-	ND<4.6	ND<4.6	ND<3.5	ND<8.5
Chloride	mg/L	314	-	-	-	-	ND<1.0	1.3J	-	-	-	-	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Conductivity	µS/cm	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	32.8	-	-	-	-	ND<0.029	0.034J	-	-	-	-	ND<0.029	ND<0.029	ND<0.029	ND<0.029
pH	pH	5.47-8.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	292	-	-	-	-	3.4	9.8	-	-	-	-	ND<0.42	ND<0.42	ND<0.42	ND<0.42
Total Dissolved Solids (TDS)	mg/L	1115	-	-	-	-	2.5	ND<1.0	-	-	-	-	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Metals, Dissolved																
Calcium	mg/L	77.23	-	-	-	-	0.0590J	0.0318J	-	-	-	-	ND<0.00932	ND<0.00932	ND<0.00932	ND<0.00932
Magnesium	mg/L	80.89	-	-	-	-	0.00421JB	0.00376J	-	-	-	-	0.00328J	0.00328J	ND<0.00328	ND<0.00328
Potassium	mg/L	11.68	-	-	-	-	ND<0.0561	ND<0.0561	-	-	-	-	ND<0.0561	ND<0.0561	ND<0.0561	ND<0.0561
Sodium	mg/L	150	-	-	-	-	0.324JB	0.294J	-	-	-	-	0.0323J	0.0323J	ND<0.0192	ND<0.0192
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.37	ND<0.44	ND<0.44	ND<0.37	ND<0.44	ND<0.37	ND<0.37	ND<0.44	ND<0.44	ND<0.37	ND<0.37	ND<0.44	ND<0.44
1,1,1-Trichloroethane	µg/L	ND	ND<0.32	ND<0.32	ND<0.35	ND<0.35	ND<0.32	ND<0.35	ND<0.32	ND<0.32	ND<0.35	ND<0.35	ND<0.32	ND<0.32	ND<0.35	ND<0.35
1,1,2,2-Tetrachloroethane	µg/L	ND	ND<0.37	ND<0.37	ND<0.45	ND<0.45	ND<0.37	ND<0.45	ND<0.37	ND<0.37	ND<0.45	ND<0.45	ND<0.37	ND<0.37	ND<0.45	ND<0.45
1,1,2-Trichloroethane	µg/L	ND	ND<0.54	ND<0.54	ND<0.79	ND<0.79	ND<0.54	ND<0.79	ND<0.54	ND<0.54	ND<0.79	ND<0.79	ND<0.54	ND<0.54	ND<0.79	ND<0.79
1,1-Dichloroethane	µg/L	ND	ND<0.53	ND<0.53	ND<0.25	ND<0.25	ND<0.53	ND<0.25	ND<0.53	ND<0.53	ND<0.25	ND<0.25	ND<0.53	ND<0.53	ND<0.25	ND<0.25
1,1-Dichloroethene	µg/L	ND	ND<0.31	ND<0.31	ND<0.26	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.26
1,1-Dichloropropene	µg/L	ND	ND<0.21	ND<0.21	ND<0.62	ND<0.62	ND<0.21	ND<0.62	ND<0.21	ND<0.21	ND<0.62	ND<0.62	ND<0.21	ND<0.21	ND<0.62	ND<0.62
1,2,3-Trichlorobenzene	µg/L	ND	ND<0.39	ND<0.39	ND<0.26	ND<0.26	ND<0.39	ND<0.26	ND<0.39	ND<0.39	ND<0.26	ND<0.26	ND<0.39	ND<0.39	ND<0.26	ND<0.26
1,2,3-Trichloropropane	µg/L	ND	ND<2.3	ND<2.3	ND<2.8	ND<2.8	ND<2.3	ND<2.8	ND<2.3	ND<2.3	ND<2.8	ND<2.8	ND<2.3	ND<2.3	ND<2.8	ND<2.8
1,2,4-Trichlorobenzene	µg/L	ND	ND<0.35	ND<0.35	ND<0.29	ND<0.29	ND<0.35	ND<0.29	ND<0.35	ND<0.35	ND<0.29	ND<0.29	ND<0.35	ND<0.35	ND<0.29	ND<0.29
1,2,4-Trimethylbenzene	µg/L	ND	ND<0.26	ND<0.26	ND<0.13	ND<0.13	ND<0.26	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.13
1,2-Dibromo-3-chloropropane	µg/L	ND	ND<2.5	ND<2.5	ND<3.1	ND<3.1	ND<2.5	ND<3.1	ND<2.5	ND<2.5	ND<3.1	ND<3.1	ND<2.5	ND<2.5	ND<3.1	ND<3.1
1,2-Dibromoethane	µg/L	ND	ND<0.81	ND<0.81	ND<0.41	ND<0.41	ND<0.81	ND<0.41	ND<0.81	ND<0.81	ND<0.41	ND<0.41	ND<0.81	ND<0.81	ND<0.41	ND<0.41
1,2-Dichlorobenzene	µg/L	ND	ND<0.24	ND<0.24	ND<0.15	ND<0.15	ND<0.24	ND<0.15	ND<0.24	ND<0.24	ND<0.15	ND<0.15	ND<0.24	ND<0.24	ND<0.15	ND<0.15
1,2-Dichloroethane	µg/L	ND	ND<0.22	ND<0.22	ND<0.25	ND<0.25	ND<0.22	ND<0.25	ND<0.22	ND<0.22	ND<0.25	ND<0.25	ND<0.22	ND<0.22	ND<0.25	ND<0.25
1,2-Dichloropropane	µg/L	ND	ND<0.28	ND<0.28	ND<0.55	ND<0.55	ND<0.28	ND<0.55	ND<0.28	ND<0.28	ND<0.55	ND<0.55	ND<0.28	ND<0.28	ND<0.55	ND<0.55
1,3,5-Trimethylbenzene	µg/L	ND	ND<0.19	ND<0.19	ND<0.86	ND<0.86	ND<0.19	ND<0.86	ND<0.19	ND<0.19	ND<0.86	ND<0.86	ND<0.19	ND<0.19	ND<0.86	ND<0.86
1,3-Dichlorobenzene	µg/L	ND	ND<0.38	ND<0.38	ND<0.15	ND<0.15	ND<0.38	ND<0.15	ND<0.38	ND<0.38	ND<0.15	ND<0.15	ND<0.38	ND<0.38	ND<0.15	ND<0.15
1,3-Dichloropropane	µg/L	ND	ND<0.30	ND<0.30	ND<0.28	ND<0.28	ND<0.30	ND<0.28	ND<0.30	ND<0.30	ND<0.28	ND<0.28	ND<0.30	ND<0.30	ND<0.28	ND<0.28
1,4-Dichlorobenzene	µg/L	ND	ND<0.30	ND<0.30	ND<0.17	ND<0.17	ND<0.30	ND<0.17	ND<0.30	ND<0.30	ND<0.17	ND<0.17	ND<0.30	ND<0.30	ND<0.17	ND<0.17
2,2-Dichloropropane	µg/L	ND	ND<0.40	ND<0.40	ND<0.29	ND<0.29	ND<0.40	ND<0.29	ND<0.40	ND<0.40	ND<0.29	ND<0.29	ND<0.40	ND<0.40	ND<0.29	ND<0.29
2-Butanone	µg/L	ND	ND<4.2	ND<4.2	ND<8.0	ND<8.0	ND<4.2	ND<8.0	ND<4.2	ND<4.2	ND<8.0	ND<8.0	ND<4.2	ND<4.2	ND<8.0	ND<8.0
2-Chlorotoluene	µg/L	ND	ND<0.24	ND<0.24	ND<0.16	ND<0.16	ND<0.24	ND<0.16	ND<0.24	ND<0.24	ND<0.16	ND<0.16	ND<0.24	ND<0.24	ND<0.16	ND<0.16
2-Hexanone	µg/L	ND	ND<1.9	ND<1.9	ND<3.4	ND<3.4	ND<1.9	ND<3.4	ND<1.9	ND<1.9	ND<3.4	ND<3.4	ND<1.9	ND<1.9	ND<3.4	ND<3.4
4-Chlorotoluene	µg/L	ND	ND<0.30	ND<0.30	ND<0.18	ND<0.18	ND<0.30	ND<0.18	ND<0.30	ND<0.30	ND<0.18	ND<0.18	ND<0.30	ND<0.30	ND<0.18	ND<0.18
4-Methyl-2-pentanone	µg/L	ND	ND<2.4	ND<2.4	ND<2.0	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.4	ND<2.0	ND<2.0	ND<2.4	ND<2.4	ND<2.0	ND<2.0
Acetone	µg/L	ND	ND<6.1	ND<6.1	ND<7.0	ND<7.0	ND<6.1	ND<7.0	ND<6.1	ND<6.1	ND<7.0	ND<7.0	ND<6.1	ND<6.1	ND<7.0	ND<7.0
Acrolein	µg/L	ND	ND<4.3	ND<4.3	ND<8.6	ND<8.6	ND<4.3	ND<8.6	ND<4.3	ND<4.3	ND<8.6	ND<8.6	ND<4.3	ND<4.3	ND<8.6	ND<8.6
Acrylonitrile	µg/L	ND	ND<3.6	ND<3.6	ND<4.4	ND<4.4	ND<3.6	ND<4.4	ND<3.6	ND<3.6	ND<4.4	ND<4.4	ND<3.6	ND<3.6	ND<4.4	ND<4.4
Benzene	µg/L	ND	ND<0.26	ND<0.26	ND<0.19	ND<0.19	ND<0.26	ND<0.19	ND<0.26	ND<0.26	ND<0.19	ND<0.19	ND<0.26	ND<0.26	ND<0.19	ND<0.19
Bromobenzene	µg/L	ND	ND<0.47	ND<0.47	ND<0.26	ND<0.26	ND<0.47	ND<0.26	ND<0.47	ND<0.47	ND<0.26	ND<0.26	ND<0.47	ND<0.47	ND<0.26	ND<0.26
Bromochloromethane	µg/L	ND	ND<0.68	ND<0.68	ND<0.88	ND<0.88	ND<0.68	ND<0.88	ND<0.68	ND<0.68	ND<0.88	ND<0.88	ND<0.68	ND<0.68	ND<0.88	ND<0.88
Bromodichloromethane	µg/L	ND	ND<0.27	ND<0.27	ND<0.21	ND<0.21	ND<0.27	ND<0.21	ND<0.27	ND<0.27	ND<0.21	ND<0.21	ND<0.27	ND<0.27	ND<0.21	ND<0.21
Bromoform	µg/L	ND	ND<0.62	ND<0.62	ND<0.87	ND<0.87	ND<0.62	ND<0.87	ND<0.62	ND<0.62	ND<0.87	ND<0.87	ND<0.62	ND<0.62	ND<0.87	ND<0.87
Bromomethane	µg/L	ND	ND<2.9	ND<2.9	ND<3.5	ND<3.5	ND<2.9	ND<3.5	ND<2.9	ND<2.9	ND<3.5	ND<3.5	ND<2.9	ND<2.9	ND<3.5	ND<3.5

Table 3-2
Summary of Groundwater Analytical Results
Poway Landfill
Poway, Califoria

Geosyntec consultants

			QA/QC Samples													
			QCFB				QCEB		QCTB				QCMB			
	UNITS	WQPS	7/17/2006	7/18/2006	1/17/2007	1/18/2007	7/17/2006	1/17/2007	7/17/2006	7/18/2006	1/17/2007	1/18/2007	7/17/2006	7/18/2006	1/17/2007	1/18/2007
Volatile Organic Compounds																
Carbon tetrachloride	µg/L	ND	ND<0.42	ND<0.42	ND<0.29	ND<0.29	ND<0.42	ND<0.29	ND<0.42	ND<0.42	ND<0.29	ND<0.29	ND<0.42	ND<0.42	ND<0.29	ND<0.29
Chlorobenzene	µg/L	ND	ND<0.36	ND<0.36	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.36	ND<0.16	ND<0.16	ND<0.36	ND<0.36	ND<0.16	ND<0.16
Chloroethane	µg/L	ND	ND<0.52	ND<0.52	ND<0.70	ND<0.70	ND<0.52	ND<0.70	ND<0.52	ND<0.52	ND<0.70	ND<0.70	ND<0.52	ND<0.52	ND<0.70	ND<0.70
Chloroform	µg/L	ND	ND<0.22	ND<0.22	ND<0.29	ND<0.29	ND<0.22	ND<0.29	ND<0.22	ND<0.22	ND<0.29	ND<0.29	ND<0.22	ND<0.22	ND<0.29	ND<0.29
Chloromethane	µg/L	ND	ND<1.8	ND<1.8	ND<2.1	ND<2.1	ND<1.8	ND<2.1	ND<1.8	ND<1.8	ND<2.1	ND<2.1	ND<1.8	ND<1.8	ND<2.1	ND<2.1
cis-1,2-Dichloroethene	µg/L	ND	ND<0.35	ND<0.35	ND<0.63	ND<0.63	ND<0.35	ND<0.63	ND<0.35	ND<0.35	ND<0.63	ND<0.63	ND<0.35	ND<0.35	ND<0.63	ND<0.63
cis-1,3-Dichloropropene	µg/L	ND	ND<0.45	ND<0.45	ND<0.28	ND<0.28	ND<0.45	ND<0.28	ND<0.45	ND<0.45	ND<0.28	ND<0.28	ND<0.45	ND<0.45	ND<0.28	ND<0.28
Dibromochloromethane	µg/L	ND	ND<0.45	ND<0.45	ND<0.39	ND<0.39	ND<0.45	ND<0.39	ND<0.45	ND<0.45	ND<0.39	ND<0.39	ND<0.45	ND<0.45	ND<0.39	ND<0.39
Dibromomethane	µg/L	ND	ND<0.42	ND<0.42	ND<0.82	ND<0.82	ND<0.42	ND<0.82	ND<0.42	ND<0.42	ND<0.82	ND<0.82	ND<0.42	ND<0.42	ND<0.82	ND<0.82
Dichlorodifluoromethane	µg/L	ND	ND<0.27	ND<0.27	ND<0.33	ND<0.33	ND<0.27	ND<0.33	ND<0.27	ND<0.27	ND<0.33	ND<0.33	ND<0.27	ND<0.27	ND<0.33	ND<0.33
Ethylbenzene	µg/L	ND	ND<0.17	ND<0.17	ND<0.13	ND<0.13	ND<0.17	ND<0.13	ND<0.17	ND<0.17	ND<0.13	ND<0.13	ND<0.17	ND<0.17	ND<0.13	ND<0.13
Hexachlorobutadiene	µg/L	ND	ND<0.39	ND<0.39	ND<0.93	ND<0.93	ND<0.39	ND<0.93	ND<0.39	ND<0.39	ND<0.93	ND<0.93	ND<0.39	ND<0.39	ND<0.93	ND<0.93
Isopropylbenzene (Cumene)	µg/L	ND	ND<0.24	ND<0.24	ND<0.10	ND<0.10	ND<0.24	ND<0.10	ND<0.24	ND<0.24	ND<0.10	ND<0.10	ND<0.24	ND<0.24	ND<0.10	ND<0.10
Isopropyltoluene	µg/L	ND	ND<0.21	ND<0.21	ND<0.14	ND<0.14	ND<0.21	ND<0.14	ND<0.21	ND<0.21	ND<0.14	ND<0.14	ND<0.21	ND<0.21	ND<0.14	ND<0.14
Methylene chloride	µg/L	ND	ND<2.6	ND<2.6	ND<9.7	ND<9.7	ND<2.6	ND<9.7	ND<2.6	ND<2.6	ND<9.7	ND<9.7	ND<2.6	ND<2.6	ND<9.7	ND<9.7
Methyl-tert-butyl-ether (MTBE)	µg/L	ND	ND<0.29	ND<0.29	ND<0.23	ND<0.23	ND<0.29	ND<0.23	ND<0.29	ND<0.29	ND<0.23	ND<0.23	ND<0.29	ND<0.29	ND<0.23	ND<0.23
Naphthalene	µg/L	ND	ND<0.95	ND<0.95	ND<0.42	ND<0.42	ND<0.95	ND<0.42	ND<0.95	ND<0.95	ND<0.42	ND<0.42	ND<0.95	ND<0.95	ND<0.42	ND<0.42
n-Butylbenzene	µg/L	ND	ND<0.29	ND<0.29	ND<0.25	ND<0.25	ND<0.29	ND<0.25	ND<0.29	ND<0.29	ND<0.25	ND<0.25	ND<0.29	ND<0.29	ND<0.25	ND<0.25
n-Propylbenzene	µg/L	ND	ND<0.30	ND<0.30	ND<0.12	ND<0.12	ND<0.30	ND<0.12	ND<0.30	ND<0.30	ND<0.12	ND<0.12	ND<0.30	ND<0.30	ND<0.12	ND<0.12
sec-Butylbenzene	µg/L	ND	ND<0.21	ND<0.21	ND<0.29	ND<0.29	ND<0.21	ND<0.29	ND<0.21	ND<0.21	ND<0.29	ND<0.29	ND<0.21	ND<0.21	ND<0.29	ND<0.29
Styrene	µg/L	ND	ND<0.29	ND<0.29	ND<0.16	ND<0.16	ND<0.29	ND<0.16	ND<0.29	ND<0.29	ND<0.16	ND<0.16	ND<0.29	ND<0.29	ND<0.16	ND<0.16
tert-Butylbenzene	µg/L	ND	ND<0.17	ND<0.17	ND<0.19	ND<0.19	ND<0.17	ND<0.19	ND<0.17	ND<0.17	ND<0.19	ND<0.19	ND<0.17	ND<0.17	ND<0.19	ND<0.19
Tetrachloroethene	µg/L	ND	ND<0.29	ND<0.29	ND<0.30	ND<0.30	ND<0.29	ND<0.30	ND<0.29	ND<0.29	ND<0.30	ND<0.30	ND<0.29	ND<0.29	ND<0.30	ND<0.30
Toluene	µg/L	ND	ND<0.35	ND<0.35	ND<0.23	**0.33J**	ND<0.35	ND<0.23	ND<0.35	ND<0.35	ND<0.23	**0.30J**	ND<0.35	ND<0.35	ND<0.23	ND<0.23
trans-1,2-Dichloroethene	µg/L	ND	ND<0.29	ND<0.29	ND<0.83	ND<0.83	ND<0.29	ND<0.83	ND<0.29	ND<0.29	ND<0.83	ND<0.83	ND<0.29	ND<0.29	ND<0.83	ND<0.83
trans-1,3-Dichloropropene	µg/L	ND	ND<0.31	ND<0.31	ND<0.26	ND<0.26	ND<0.31	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.26	ND<0.31	ND<0.31	ND<0.26	ND<0.26
Trichloroethene	µg/L	ND	ND<0.30	ND<0.30	ND<0.31	ND<0.31	ND<0.30	ND<0.31	ND<0.30	ND<0.30	ND<0.31	ND<0.31	ND<0.30	ND<0.30	ND<0.31	ND<0.31
Trichlorofluoromethane	µg/L	ND	ND<0.36	ND<0.36	ND<0.83	ND<0.83	ND<0.36	ND<0.83	ND<0.36	ND<0.36	ND<0.83	ND<0.83	ND<0.36	ND<0.36	ND<0.83	ND<0.83
Vinyl chloride	µg/L	ND	ND<0.33	ND<0.33	ND<0.24	ND<0.24	ND<0.33	ND<0.24	ND<0.33	ND<0.33	ND<0.24	ND<0.24	ND<0.33	ND<0.33	ND<0.24	ND<0.24
Xylenes, total	µg/L	ND	ND<0.38	ND<0.38	ND<0.27	ND<0.27	ND<0.38	ND<0.27	ND<0.38	ND<0.38	ND<0.27	ND<0.27	ND<0.38	ND<0.38	ND<0.27	ND<0.27

Bolded values exceed Water Quality Protection Standards (WQPS)
mg/L - Milligrams per liter.
µg/L - Micrograms per liter.
µS/cm - Microseimens per centimeter.
ND- Not detected at concentrations greater than or equal to the method detection limit
NE - Not established.
J- Trace concentration detected between the method detection limit and the reporting limit
- Not analyzed.
D - The analyte concentration was reported from analysis of the diluted sample
B - Analyte was present in the associated method blank
QCFB - Quality Control Field Blank
QCEB - Quality Control Equipment Blank
QCTB - Quality Control Trip Blank
QCMB - Quality Control Method Blank
WQPS - Water Quality Protectioin Standard

Table 3-3
Comparison of Groundwater Sampling Method Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

	Units	WQPS	POGW-11		POGW-13		POGW-17B		POGW-18B		POPW-1	
			1/17/2007	1/26/2007*	1/18/2007	1/26/2007*	1/18/2007	1/25/2007*	1/17/2007	1/26/2007*	1/17/2007	1/25/2007*
General Chemistry												
Bicarbonate (as CaCO3)	mg/l	NE	146	136	214	212	386	366	234	222	264	260
Carbonate (as CaCO3)	mg/l	NE	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85
Chemical Oxygen Demand	mg/l	55.59	ND<3.5	ND<3.5	83	ND<3.5	64	15	ND<3.5	ND<3.5	18	63
Chloride	mg/l	314	**340**	**340**	170	180	270	250	120	110	**690**	**710**
Nitrate (as N)	mg/l	32.8	4.3	5.9	5.1	6.2	4.8	4.9	3.4	3.9	5.9	5.7
Solids, Total Dissolved	mg/l	1115	**1130**	1080	1000	993	**1200**	**1130**	850	800	**2510**	**2290**
Sulfate	mg/l	292	**300**	280	**340**	**300**	**310**	**390**	**300**	280	**340**	**740**
Metals												
Calcium	mg/l	77.23	68.0	70.6	45.5	56.1	**83.5**	**83.9**	26.5	19.4	**176**	**195**
Magnesium	mg/l	80.89	77.5	**82.4**	44.8	48.3	**87.8**	**84.8**	26.1	20.7	**240**	**260**
Potassium	mg/l	11.68	4.10	4.07	4.53	4.49	2.00	1.44	4.20	3.28	**12.9**	**13.8**
Sodium	mg/l	150	**170**	**175**	**218**	**232**	**210**	**197**	**216**	**227**	**246**	**261**
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/l	ND	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44
1,1,1-Trichloroethane	µg/l	ND	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35
1,1,2,2-Tetrachloroethane	µg/l	ND	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45
1,1,2-Trichloroethane	µg/l	ND	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79	ND<0.79
1,1-Dichloroethane	µg/l	ND	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	**1.0**	ND<0.25
1,1-Dichloroethene	µg/l	ND	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	**0.89J**	**0.61J**
1,1-Dichloropropene	µg/l	ND	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62
1,2,3-Trichlorobenzene	µg/l	ND	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26
1,2,3-Trichloropropane	µg/l	ND	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8
1,2,4-Trichlorobenzene	µg/l	ND	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29
1,2,4-Trimethylbenzene	µg/l	ND	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13
1,2-Dibromo-3-Chloropropane	µg/l	ND	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1	ND<3.1
1,2-Dibromoethane	µg/l	ND	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41
1,2-Dichlorobenzene	µg/l	ND	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15
1,2-Dichloroethane	µg/l	ND	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
1,2-Dichloropropane	µg/l	ND	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55
1,3,5-Trimethylbenzene	µg/l	ND	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86
1,3-Dichlorobenzene	µg/l	ND	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15
1,3-Dichloropropane	µg/l	ND	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28
1,4-Dichlorobenzene	µg/l	ND	ND<0.17	ND<0.17	ND<0.17	ND<0.17	**0.34J**	**0.29J**	ND<0.17	ND<0.17	**1.4**	**0.49J**
2,2-Dichloropropane	µg/l	ND	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29
2-Butanone	µg/l	ND	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0
2-Chlorotoluene	µg/l	ND	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16

Table 3-3
Comparison of Groundwater Sampling Method Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

	Units	WQPS	POGW-11		POGW-13		POGW-17B		POGW-18B		POPW-1	
			1/17/2007	1/26/2007*	1/18/2007	1/26/2007*	1/18/2007	1/25/2007*	1/17/2007	1/26/2007*	1/17/2007	1/25/2007*
Volatile Organic Compounds												
2-Hexanone	µg/l	ND	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4
4-Chlorotoluene	µg/l	ND	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18
4-Methyl-2-Pentanone	µg/l	ND	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Acetone	µg/l	ND	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0
Acrolein	µg/l	ND	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6	ND<8.6
Acrylonitrile	µg/l	ND	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4
Benzene	µg/l	ND	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	**1.2**	**1.1**
Bromobenzene	µg/l	ND	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26
Bromochloromethane	µg/l	ND	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88
Bromodichloromethane	µg/l	ND	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21
Bromoform	µg/l	ND	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87	ND<0.87
Bromomethane	µg/l	ND	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5
c-1,2-Dichloroethene	µg/l	ND	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND<0.63	**0.66J**	ND<0.63	ND<0.63	**280D**	**330D**
c-1,3-Dichloropropene	µg/l	ND	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28	ND<0.28
Carbon Tetrachloride	µg/l	ND	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29
Chlorobenzene	µg/l	ND	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16
Chloroethane	µg/l	ND	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70
Chloroform	µg/l	ND	ND<0.29	ND<0.29	**1.6**	**2.2**	ND<0.29	**0.32J**	ND<0.29	ND<0.29	**1.7**	**1.7**
Chloromethane	µg/l	ND	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1
Dibromochloromethane	µg/l	ND	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39
Dibromomethane	µg/l	ND	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82
Dichlorodifluoromethane	µg/l	ND	ND<0.33	ND<0.33	ND<0.33	ND<0.33	**1.1**	**1.5**	ND<0.33	ND<0.33	**0.77J**	**0.90J**
Ethylbenzene	µg/l	ND	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13
Hexachloro-1,3-Butadiene	µg/l	ND	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93	ND<0.93
Isopropylbenzene	µg/l	ND	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
Methylene Chloride	µg/l	ND	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7	ND<9.7
Methyl-t-Butyl Ether (MTBE)	µg/l	ND	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23
Naphthalene	µg/l	ND	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42	ND<0.42
n-Butylbenzene	µg/l	ND	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
n-Propylbenzene	µg/l	ND	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12
o-Xylene	µg/l	ND	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17
p/m-Xylene	µg/l	ND	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27
p-Isopropyltoluene	µg/l	ND	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14
sec-Butylbenzene	µg/l	ND	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29
Styrene	µg/l	ND	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16
t-1,2-Dichloroethene	µg/l	ND	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	**1.8**	**7.9**
t-1,3-Dichloropropene	µg/l	ND	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26
tert-Butylbenzene	µg/l	ND	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19

Table 3-3
Comparison of Groundwater Sampling Method Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

	Units	WQPS	POGW-11		POGW-13		POGW-17B		POGW-18B		POPW-1	
			1/17/2007	1/26/2007*	1/18/2007	1/26/2007*	1/18/2007	1/25/2007*	1/17/2007	1/26/2007*	1/17/2007	1/25/2007*
Volatile Organic Compounds												
Tetrachloroethene	µg/l	ND	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	**3.4**	**0.98J**
Toluene	µg/l	ND	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23
Trichloroethene	µg/l	ND	ND<0.31	ND<0.31	ND<0.31	ND<0.31	**0.48J**	**0.65J**	ND<0.31	ND<0.31	**1200D**	**1000D**
Trichlorofluoromethane	µg/l	ND	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83
Vinyl Chloride	µg/l	ND	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	**2.5**	**1.8**

* - Collected using low flow sampling methods
Bolded values exceed WQPS
WQPS - Water Quality Protection Standard
mg/l - milligrams per liter
µg/l - micrograms per liter
ND - Not detected at concentrations greater than or equal to the method detection limit
NE - Not Established
J - Trace concentration detected between the method detection limit and the reporting limit
D - The analyte concentration was reported from analysis of the diluted sample

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		Property Boundary Soil Vapor Wells									Background Soil Vapor Wells				Offsite Soil Vapor Wells		
		PVP-1A		PVP-2A		PVP-3A		PVP-3C[1]	PVP-4A		PVP-5		PVP-6		VW-1A		VW-1C[1]
	Units	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006
VOCs by Modified EPA Method TO-15																	
1,1,1-Trichloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,1,2,2-Tetrachloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,1,2-Trichloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,1-Dichloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,1-Dichloroethene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,2,4-Trichlorobenzene	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
1,2,4-Trimethylbenzene	ppbv	2.2	4.9	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,2-Dibromoethane (EDB)	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,2-Dichlorobenzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,2-Dichloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,2-Dichloropropane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,3,5-Trimethylbenzene	ppbv	ND<1.3	1.3	ND<1.2	ND<1.1	1.4	ND<1.1	ND<1.1	ND<1.2	ND<1.2	2.0	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,3-Butadiene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,3-Dichlorobenzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,4-Dichlorobenzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
1,4-Dioxane	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
2,2,4-Trimethylpentane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
2-Butanone (Methyl Ethyl Ketone)	ppbv	14	ND<1.1	3.8	2.2	7.2	ND<1.1	ND<1.1	4.2	ND<1.2	4.7	ND<1.1	1.3	ND<1.1	2.1	ND<1.1	2.4
2-Hexanone	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
2-Propanol	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	29
3-Chloropropene	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
4-Ethyltoluene	ppbv	ND<1.3	3.8	ND<1.2	1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
4-Methyl-2-pentanone	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Acetone	ppbv	51	ND<4.6	ND<4.9	ND<4.4	15	ND<4.4	ND<4.4	7.4	ND<4.7	19	ND<4.5	6.6	4.6	4.9	ND<4.5	18
alpha-Chlorotoluene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Benzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	1.5
Bromodichloromethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	3.1	ND<1.2	ND<1.1	ND<1.1	1.4	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Bromoform	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Bromomethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Carbon Disulfide	ppbv	1.9	ND<1.1	19	ND<1.1	14	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Carbon Tetrachloride	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Chlorobenzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Chloroethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Chloroform	ppbv	6.7	3.4	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	2.3	ND<1.2	ND<1.1	ND<1.1	1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Chloromethane	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
cis-1,2-Dichloroethene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
cis-1,3-Dichloropropene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Cumene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Cyclohexane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	1.3	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Dibromochloromethane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	2.3	ND<1.2	ND<1.1	ND<1.1	1.4	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Ethanol	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
Ethyl Benzene	ppbv	ND<1.3	2.9	ND<1.2	2.7	1.3	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Freon 11	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Freon 113	ppbv	15	3.9	180	140	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Freon 114	ppbv	5.3	ND<1.1	4.7	5.0	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Freon 12	ppbv	24	6.7	49	49	ND<1.2	ND<1.1	ND<1.1	7.6	8.5	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Heptane	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		Property Boundary Soil Vapor Wells									Background Soil Vapor Wells				Offsite Soil Vapor Wells		
		PVP-1A		PVP-2A		PVP-3A		PVP-3C[1]	PVP-4A		PVP-5		PVP-6		VW-1A		VW-1C[1]
	Units	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006	1/22/2007	7/24/2006
VOCs by Modified EPA Method TO-15																	
Hexachlorobutadiene	ppbv	ND<5.3	ND<4.6	ND<4.9	ND<4.4	ND<4.8	ND<4.4	ND<4.4	ND<4.7	ND<4.7	ND<4.6	ND<4.5	ND<4.3	ND<4.4	ND<4.7	ND<4.5	ND<4.7
Hexane	ppbv	2.7	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Iodomethane*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	ppbv	ND<1.3	12	1.2	3.7	2.8	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Methyl tert-butyl ether	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Methylene Chloride	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
o-Xylene	ppbv	ND<1.3	3.7	ND<1.2	1.8	2.3	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Propylbenzene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Styrene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Tetrachloroethene	ppbv	2.9	ND<1.1	3.4	2.5	1.2	ND<1.1	1.1	4.0	2.2	ND<1.1	ND<1.1	1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Tetrahydrofuran	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Toluene	ppbv	5.2	5.9	ND<1.2	4.0	1.7	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	1.2
trans-1,2-Dichloroethene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.3 UJ	ND<1.1	ND<1.1	ND<1.2 UJ	ND<1.2	ND<1.1 UJ	ND<1.1	ND<1.1 UJ	ND<1.1	ND<1.2	ND<1.1	ND<1.2
trans-1,3-Dichloropropene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
trans-1,4-Dichloro-2-butene*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2
Vinyl Acetate*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ppbv	ND<1.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2

ppbv - Parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
UJ - Non-detected compound associated with low bias in the continuous calibration verification
* - Tentatively Identified Compound (TIC)
TICs do not have a detection limit
[1] - PVP-3DUP, VW-1ADUP, and VW-8ADUP are labeled PVP-3C, VW-1C, and VW-8C, respectively

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		Offsite Soil Vapor Wells													
		VW-1B		VW-2A		VW-3A		VW-4A		VW-4B		VW-5A		VW-6A	
	Units	7/24/2006	1/22/2007	7/25/2006	1/22/2007	7/24/2006	1/23/2007	7/25/2006	1/22/2007	7/25/2006	1/22/2007	7/24/2006	1/23/2007	7/24/2006	1/23/2007
VOCs by Modified EPA Method TO-15															
1,1,1-Trichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,1,2,2-Tetrachloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,1,2-Trichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,1-Dichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,1-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,2,4-Trichlorobenzene	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
1,2,4-Trimethylbenzene	ppbv	1.7	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,2-Dibromoethane (EDB)	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,2-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	2.2
1,2-Dichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,2-Dichloropropane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,3,5-Trimethylbenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,3-Butadiene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,3-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,4-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
1,4-Dioxane	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
2,2,4-Trimethylpentane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
2-Butanone (Methyl Ethyl Ketone)	ppbv	ND<1.2	ND<1.1	6.7	2.3	5.6	ND<1.0	2.0	1.4	6.8	ND<1.2	ND<1.2	ND<1.1	1.8	4.6
2-Hexanone	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
2-Propanol	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
3-Chloropropene	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
4-Ethyltoluene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
4-Methyl-2-pentanone	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Acetone	ppbv	5.7	ND<4.6	19	5.4	18	ND<4.0	ND<4.8	5.7	17	ND<4.7	ND<4.7	ND<4.6	6.6	18
alpha-Chlorotoluene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Benzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Bromodichloromethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Bromoform	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Bromomethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Carbon Disulfide	ppbv	ND<1.2	ND<1.1	2.8	ND<1.1	ND<1.2	ND<1.0	ND<1.2	13	1.4	ND<1.2	ND<1.2	ND<1.1	5.0	ND<1.1
Carbon Tetrachloride	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Chlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Chloroethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Chloroform	ppbv	3.5	2.7	1.7	ND<1.1	3.7	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	1.4
Chloromethane	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
cis-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
cis-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Cumene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Cyclohexane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Dibromochloromethane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Ethanol	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	7.7
Ethyl Benzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Freon 11	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Freon 113	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	1.5	1.4	2.0	1.4	ND<1.3	ND<1.1
Freon 114	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Freon 12	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	1.2	1.5	2.2	2.9	1.7	2.0	ND<1.3	ND<1.1
Heptane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1

Geosyntec consultants

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

		Offsite Soil Vapor Wells													
		VW-1B		VW-2A		VW-3A		VW-4A		VW-4B		VW-5A		VW-6A	
	Units	7/24/2006	1/22/2007	7/25/2006	1/22/2007	7/24/2006	1/23/2007	7/25/2006	1/22/2007	7/25/2006	1/22/2007	7/24/2006	1/23/2007	7/24/2006	1/23/2007
VOCs by Modified EPA Method TO-15															
Hexachlorobutadiene	ppbv	ND<4.9	ND<4.6	ND<5.1	ND<4.6	ND<4.8	ND<4.0	ND<4.8	ND<4.6	ND<5.4	ND<4.7	ND<4.7	ND<4.6	ND<5.3	ND<4.5
Hexane	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	3.5	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Iodomethane*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	ppbv	3.7	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Methyl tert-butyl ether	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Methylene Chloride	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	16	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
o-Xylene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Propylbenzene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Styrene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Tetrachloroethene	ppbv	1.6	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	73	9.6	69	60	20	8.2	3.1	ND<1.1
Tetrahydrofuran	ppbv	ND<1.2	ND<1.1	ND<1.3	1.5	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Toluene	ppbv	16	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	2.6	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
trans-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.3 UJ	ND<1.1	ND<1.2	ND<1.0	ND<1.2 UJ	ND<1.1	ND<1.3 UJ	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
trans-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
trans-1,4-Dichloro-2-butene*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1
Vinyl Acetate*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ppbv	ND<1.2	ND<1.1	ND<1.3	ND<1.1	ND<1.2	ND<1.0	ND<1.2	ND<1.1	ND<1.3	ND<1.2	ND<1.2	ND<1.1	ND<1.3	ND<1.1

ppbv - Parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
UJ - Non-detected compound associated with low bias in the continuous calibration verification
* - Tentatively Identified Compound (TIC)
TICs do not have a detection limit
[1] - PVP-3DUP, VW-1ADUP, and VW-8ADUP are labeled PVP-3C, VW-1C, and VW-8C, respectively

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Poway Landfill
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Geosyntec consultants

		Offsite Soil Vapor Wells																	
		VW-7A		VW-8A		VW-8C[1]		VW-8B		VW-10		VW-11		VW-12		VW-13		VW-14	
	Units	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007
VOCs by Modified EPA Method TO-15																			
1,1,1-Trichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,1,2,2-Tetrachloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,1,2-Trichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,1-Dichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,1-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,2,4-Trichlorobenzene	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
1,2,4-Trimethylbenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,2-Dibromoethane (EDB)	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,2-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,2-Dichloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,2-Dichloropropane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,3,5-Trimethylbenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,3-Butadiene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,3-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,4-Dichlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
1,4-Dioxane	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	5.0	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
2,2,4-Trimethylpentane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
2-Butanone (Methyl Ethyl Ketone)	ppbv	ND<1.2	1.2	5.9	ND<1.1	4.3	ND<1.1	2.9	ND<1.1	7.0	ND<1.1	7.0	1.3	2.2	2.3	8.3	ND<1.2	7.4	2.3
2-Hexanone	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
2-Propanol	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
3-Chloropropene	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
4-Ethyltoluene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
4-Methyl-2-pentanone	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Acetone	ppbv	ND<4.9	ND<4.5	22	ND<4.3	16	ND<4.5	7.6	ND<4.5	17	ND<4.4	18	6.7	21	8.1	20	ND<4.7	15	17
alpha-Chlorotoluene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Benzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	1.3	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Bromodichloromethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Bromoform	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Bromomethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Carbon Disulfide	ppbv	4.7	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	1.1	ND<1.2	ND<1.1	6.8	ND<1.2	2.6	ND<1.2	ND<1.3	ND<1.1
Carbon Tetrachloride	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Chlorobenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Chloroethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Chloroform	ppbv	3.4	ND<1.1	1.4	ND<1.1	1.6	ND<1.1	2.0	ND<1.1	8.4	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Chloromethane	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
cis-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
cis-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Cumene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Cyclohexane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Dibromochloromethane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Ethanol	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	4.8 J	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
Ethyl Benzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	1.5	ND<1.3	ND<1.1
Freon 11	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Freon 113	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	20	17	ND<1.3	ND<1.2	5.1	3.2
Freon 114	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Freon 12	ppbv	ND<1.2	ND<1.1	ND<1.2	1.2	ND<1.2	1.4	ND<1.1	1.3	ND<1.2	ND<1.1	ND<1.2	ND<1.1	18	24	ND<1.3	ND<1.2	8.7	7.6
Heptane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	1.7	ND<1.3	ND<1.1

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		Offsite Soil Vapor Wells																	
		VW-7A		VW-8A		VW-8C[1]		VW-8B		VW-10		VW-11		VW-12		VW-13		VW-14	
	Units	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007	7/25/2006	1/23/2007
VOCs by Modified EPA Method TO-15																			
Hexachlorobutadiene	ppbv	ND<4.9	ND<4.5	ND<4.7	ND<4.3	ND<4.7	ND<4.5	ND<4.5	ND<4.5	ND<4.8	ND<4.4	ND<4.9	ND<4.4	ND<4.7	ND<4.7	ND<5.4	ND<4.7	ND<5.1	ND<4.5
Hexane	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Iodomethane*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	1.6	ND<1.2	1.9	ND<1.2	ND<1.2	ND<1.3	2.6	ND<1.3	ND<1.1
Methyl tert-butyl ether	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Methylene Chloride	ppbv	4.3	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
o-Xylene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Propylbenzene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Styrene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Tetrachloroethene	ppbv	2.6	ND<1.1	2.8	ND<1.1	3.0	ND<1.1	1.9	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	9.3	3.6	2.8	ND<1.2	ND<1.3	ND<1.1
Tetrahydrofuran	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Toluene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
trans-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2 UJ	ND<1.1	ND<1.2 UJ	ND<1.1	ND<1.2	ND<1.2	ND<1.3 UJ	ND<1.2	ND<1.3 UJ	ND<1.1
trans-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
trans-1,4-Dichloro-2-butene*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1
Vinyl Acetate*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ppbv	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.3	ND<1.2	ND<1.3	ND<1.1

ppbv - Parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
UJ - Non-detected compound associated with low bias in the continuous calibration verification
* - Tentatively Identified Compound (TIC)
TICs do not have a detection limit
[1] - PVP-3DUP, VW-1ADUP, and VW-8ADUP are labeled PVP-3C, VW-1C, and VW-8C, respectively

Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		QA/QC Samples									
		QCFB		QCTB				QCEB-1	QCEB-2	QCEB-3	QCEB-4
	Units	7/24/2006	7/25/2006	7/24/2006	7/25/2006	1/22/2007	1/23/2007	7/25/2006	7/25/2006	7/25/2006	7/25/2006
VOCs by Modified EPA Method TO-15											
1,1,1-Trichloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,1,2,2-Tetrachloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,1,2-Trichloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,1-Dichloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,1-Dichloroethene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,2,4-Trichlorobenzene	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1,2,4-Trimethylbenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,2-Dibromoethane (EDB)	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,2-Dichlorobenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,2-Dichloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,2-Dichloropropane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,3,5-Trimethylbenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,3-Butadiene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,3-Dichlorobenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,4-Dichlorobenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1,4-Dioxane	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2,2,4-Trimethylpentane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (Methyl Ethyl Ketone)	ppbv	ND<1.2	7.2	ND<0.50	ND<0.50	ND<0.50	0.56	0.95	1.5	0.57	ND<0.50
2-Hexanone	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Propanol	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	14	22	42	5.0
3-Chloropropene	ppbv	ND<4.8	ND<4.8	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-Ethyltoluene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4-Methyl-2-pentanone	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Acetone	ppbv	7.7	17	ND<2.0	ND<2.0	ND<2.0	2.8	17	18	26	4.4
alpha-Chlorotoluene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Benzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.54	ND<0.50	ND<0.50
Bromodichloromethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Bromoform	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Bromomethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Carbon Disulfide	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	5.2	9.3	4.0
Carbon Tetrachloride	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chlorobenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloromethane	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
cis-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
cis-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cumene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyclohexane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	ND<0.50	ND<0.50
Dibromochloromethane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Ethanol	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	2.6	4.4	3.9	4.7	ND<2.0
Ethyl Benzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Freon 11	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Freon 113	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Freon 114	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Freon 12	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Heptane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	ND<0.50	ND<0.50

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Table 4-1
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

		QA/QC Samples									
		QCFB		QCTB				QCEB-1	QCEB-2	QCEB-3	QCEB-4
	Units	7/24/2006	7/25/2006	7/24/2006	7/25/2006	1/22/2007	1/23/2007	7/25/2006	7/25/2006	7/25/2006	7/25/2006
VOCs by Modified EPA Method TO-15											
Hexachlorobutadiene	ppbv	ND<4.8	ND<4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Hexane	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	0.90	ND<0.50
Iodomethane*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.63	ND<0.50	ND<0.50	ND<0.50
Methyl tert-butyl ether	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Methylene Chloride	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	0.74	ND<0.50	0.53	ND<0.50	ND<0.50
o-Xylene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Propylbenzene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Styrene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Tetrachloroethene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Tetrahydrofuran	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Toluene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	1.7	0.74	1.8	0.73	ND<0.50
trans-1,2-Dichloroethene	ppbv	ND<1.2 UJ	ND<1.2 UJ	ND<0.50 UJ	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50 UJ
trans-1,3-Dichloropropene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
trans-1,4-Dichloro-2-butene*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	ND<0.50	ND<0.50
Vinyl Acetate*	ppbv	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ppbv	ND<1.2	ND<1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

ppbv - Parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
UJ - Non-detected compound associated with low bias in the continuous calibration verification
* - Tentatively Identified Compound (TIC)
TICs do not have a detection limit
[1] - PVP-3DUP, VW-1ADUP, and VW-8ADUP are labeled PVP-3C, VW-1C, and VW-8C, respectively

Table 4-2
Summary of Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

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Onsite Temporary Soil Vapor Probes
May 2004

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
SG-1 @ 6'	5/5/2004	1.6	ND<0.41	1.2
SG-1 @ 9'	5/5/2004	2.7	ND<0.47	ND<0.54
SG-1 @ 14'	5/5/2004	1.2	ND<0.46	ND<0.53
SG-2 @ 7'	5/10/2004	3.8	ND<0.46	2
SG-2 @10'	5/10/2004	5.8	ND<0.41	1.5
SG-2 @ 15'	5/10/2004	2.9	ND<0.46	ND<0.53
SG-3 @ 10'	5/10/2004	8.6	ND<0.42	ND<0.49
SG-4 @ 10'	5/10/2004	9.1	ND<0.42	ND<0.48
SG-5 @ 9'	5/10/2004	7.8	2.7	73
SG-6 @ 9'	5/10/2004	4.3	ND<0.44	1
SG-7 @ 11'	5/10/2004	7.9	ND<0.4	4.2
SG-8 @ 15'	5/10/2004	20	21	17
SG-9 @ 15'	5/10/2004	38	ND<0.44	2.1
SG-9 @ 18'	5/10/2004	68	1.8	3.8
SG-9 @ 23'	5/10/2004	38	29	23

Offsite Temporary Soil Vapor Probes
June 2005

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
SG-10@1.5'	6/15/2005	12	ND<0.56	ND<0.67
SG-10@5'	6/15/2005	49	1.2	ND<0.50
SG-11@1.5'	6/15/2005	4.9	ND<0.74	ND<0.88
SG-11@5.0'	6/15/2005	47	1.3	1.3
SG-12@1.5'	6/15/2005	19	ND<0.66	25
SG-12@5.0'	6/15/2005	10	0.75	53.0
SG-13@1.5'	6/15/2005	22	ND<0.73	ND<0.87
SG-13@5.0'	6/15/2005	7.4	ND<0.65	2.1
SG-14@1.5'	6/15/2005	22	ND<0.42	ND<0.50
SG-14@5'	6/15/2005	5	ND<0.41	0.8
SG-15@1.5'	6/15/2005	12	ND<1.2	ND<1.4
SG-15@5'	6/15/2005	4.1	ND<0.43	ND<0.51
SG-16@1.5'	6/15/2005	10	ND<0.58	ND<0.70
SG-16@5'	6/15/2005	38	0.93	ND<0.51
SG-17@1.5'	6/15/2005	10	ND<0.48	ND<0.58
SG-17@5.0'	6/15/2005	21	ND<0.42	ND<0.50
SG-18@1.5'	6/15/2005	15	ND<0.47	ND<0.57
SG-18@5'	6/15/2005	14	ND<0.42	ND<0.50
SG-19@1.5'	6/15/2005	12	ND<0.64	ND<0.76
SG-19@5.0'	6/15/2005	11	ND<0.43	ND<0.52

Table 4-2
Summary of Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

Geosyntec consultants

Onsite Permanent Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
Background Soil Vapor Wells				
PVP-5	4/19/2006	ND<1.3	ND<1.3	ND<1.3
	5/8/2006	ND<1.1	ND<1.1	1.2
	7/24/2006	ND<1.1	ND<1.1	ND<1.1
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
PVP-6	4/19/2006	ND<1.1	ND<1.1	ND<1.1
	5/8/2006	ND<1.2	ND<1.2	1.2
	7/24/2006	ND<1.1	ND<1.1	1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
Refuse Soil Vapor Wells				
PVP-7A	4/6/2006	100	19	ND<4.7
PVP-8	4/6/2006	130	36	18
PVP-9	4/6/2006	180	37	27
PVP-10A	4/6/2006	140	19	ND<4.8
Soil Vapor Wells Underlying Refuse				
PVP-7B	4/6/2006	87	10	3.3
PVP-10B	4/6/2006	120	23	5.0
Property Boundary Soil Vapor Wells				
PVP-1	2/2/2006[1]	120	ND<7.8	ND<7.8
	2/14/2006[1]	140	ND<9.2	ND<9.2
PVP-1D	2/2/2006*	150	ND<3.1	ND<3.1
PVP-1A	4/19/2006	ND<1.3	ND<1.3	1.8
	5/8/2006	ND<1.3	ND<1.3	2.1
	7/24/2006	ND<1.3	ND<1.3	2.9
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
PVP-2A-R	2/14/2006[1]	9.5	ND<1.1	3.9
PVP-2AD-R	2/14/2006*	8.6	ND<2.4	4.2
PVP-2A	2/2/2006	19	ND<1.2	ND<1.2
	2/14/2006[1]	11	5.2	ND<4.7
	5/8/2006	ND<1.1	ND<1.1	3.6
	7/24/2006	ND<1.2	ND<1.2	3.4
	1/22/2007	ND<1.1	ND<1.1	2.5
PVP-2B-R	2/14/2006[1]	100	ND<32	ND<32
PVP-2B	2/2/2006[1]	ND<1.1	ND<1.1	ND<1.1
	2/14/2006	ND<2.3	ND<2.3	ND<2.3
	5/8/2006[1]	3.0	ND<3.0	ND<3.0
PVP-3A	2/2/2006	36	ND<1.2	ND<1.2
	2/14/2006[1]	26	ND<1.2	ND<1.2
	4/19/2006	1.4	ND<1.3	ND<1.3
	4/19/2006*	5.4	ND<1.1	5.4
	5/8/2006	1.5	ND<1.2	4.2
	5/8/2006*	1.3	ND<1.2	1.4
	7/24/2006	ND<1.2	ND<1.2	1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	1/22/2007*	ND<1.1	ND<1.1	1.1
PVP-3B	2/2/2006	58	ND<6.2	ND<6.2
	2/14/2006	92	ND<4.8	ND<4.8
	4/19/2006	6.2	ND<1.2	5.6
	5/8/2006	7.0	ND<1.3	3.8
PVP-4A	4/20/2006	ND<1.1	ND<1.1	3.2
	5/8/2006	ND<1.2	ND<1.2	3.4
	7/24/2006	ND<1.2	ND<1.2	4.0
	1/22/2007	ND<1.2	ND<1.2	2.2
PVP-4B	5/8/2006[1]	ND<370	ND<370	ND<370

Table 4-2
Summary of Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

Geosyntec consultants

Offsite Permanent Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
100 feet from Property Boundary				
VW-1A	4/20/2006	ND<4.9	ND<4.9	ND<4.9
	5/8/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006*	1.5	ND<1.2	ND<1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
VW-1B	4/20/2006	2.9	ND<1.2	3.3
	5/9/2006	ND<1.2	ND<1.2	3.3
	7/24/2006	ND<1.2	ND<1.2	1.6
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
VW-2A	4/20/2006	5.9	ND<1.1	4.1
	4/20/2006*	6.5	ND<1.2	4.1
	5/9/2006	1.2	ND<1.2	2.5
	7/25/2006	ND<1.3	ND<1.3	ND<1.3
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
VW-2B	5/11/2006[1]	ND<220	ND<220	ND<220
VW-3A	4/20/2006	ND<1.1	ND<1.1	ND<1.1
	5/9/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	ND<1.0	ND<1.0	ND<1.0
VW-3B	5/11/2006[1]	ND<81	ND<81	ND<81
VW-4A	4/24/2006	ND<1.2	ND<1.2	51
	5/9/2006	ND<1.2	ND<1.2	59
	5/9/2006*	ND<1.1	ND<1.1	49
	7/25/2006	ND<1.2	ND<1.2	73
	1/22/2007	ND<1.1	ND<1.1	9.6
VW-4B	4/24/2006	6.0	ND<1.1	62
	5/9/2006	2.4	1.5	88
	7/25/2006	ND<1.3	ND<1.3	69
	1/22/2007	ND<1.2	ND<1.2	60
VW-5A	5/9/2006	ND<1.2	1.8	19
	7/24/2006	ND<1.2	ND<1.2	20
	1/23/2007	ND<1.1	ND<1.1	8.2
VW-5B	5/11/2006[1]	ND<19	ND<19	ND<19
VW-6A	5/10/2006	3.8	ND<1.2	6.2
	7/24/2006	ND<1.3	ND<1.3	3.1
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
VW-6B	5/11/2006[1]	ND<10	ND<10	11
VW-7A	4/24/2006	2.6	19	3.7
	4/24/2006*	2.6	19	3.6
	5/10/2006	2.2	5.6	2.0
	7/25/2006	ND<1.2	ND<1.2	2.6
	1/23/2007	ND<1.1	ND<1.1	ND<1.1

Table 4-2
Summary of Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

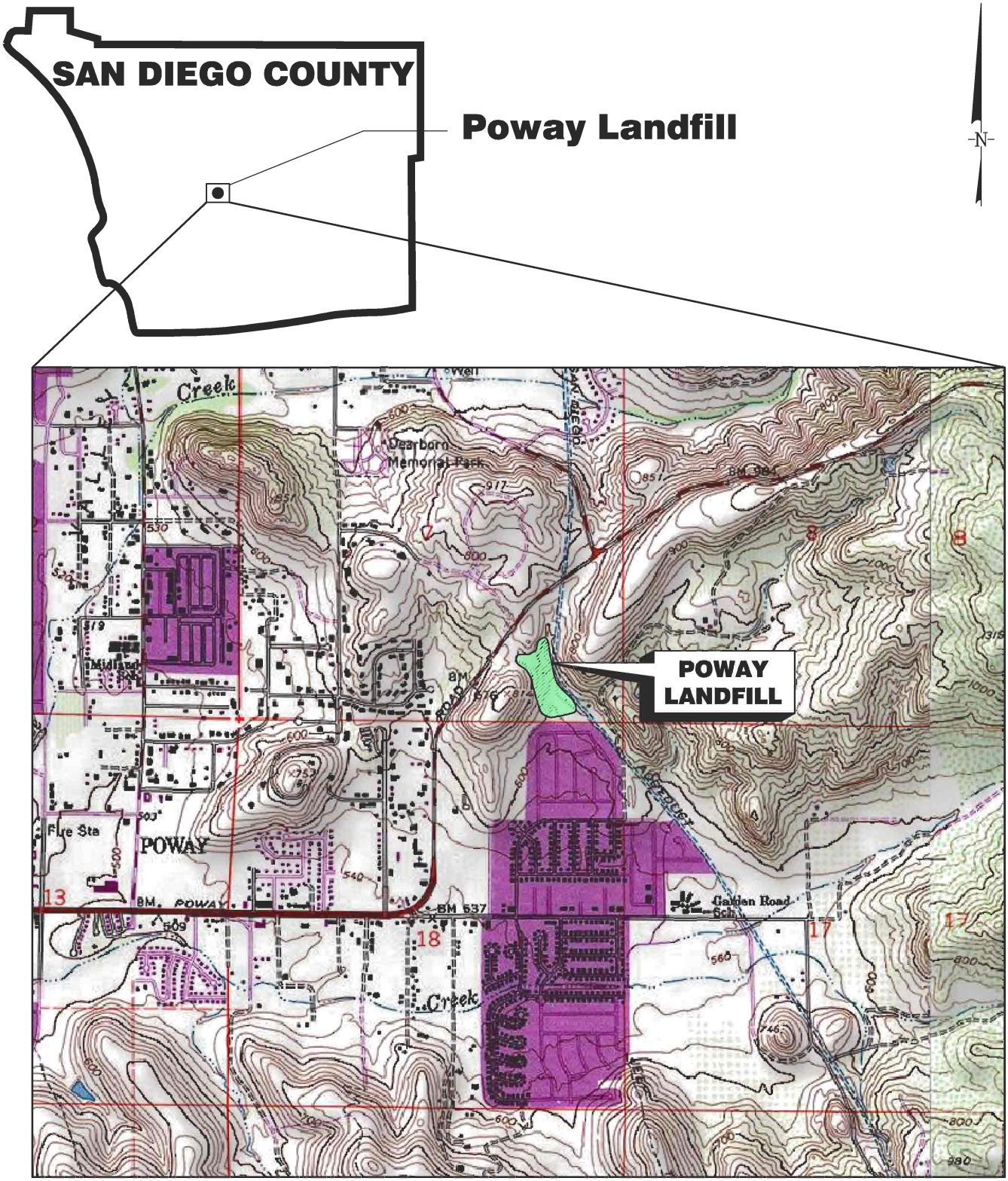
Geosyntec consultants

Offsite Permanent Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
300 feet from Property Boundary				
VW-8A	4/24/2006	ND<1.1	3.7	2.1
	5/9/2006	ND<1.2	2.8	2.2
	7/25/2006	ND<1.2	ND<1.2	2.8
	7/25/2006*	ND<1.2	ND<1.2	3
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	1/23/2007*	ND<1.1	ND<1.1	ND<1.1
VW-8B	4/25/2006	ND<1.1	ND<1.1	1.7
	5/9/2006	ND<1.1	ND<1.1	1.9
	7/25/2006	ND<1.1	ND<1.1	1.9
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
VW-9	5/11/2006[1]	ND<150	ND<150	ND<150
VW-10	4/25/2006	ND<1.1	ND<1.1	ND<1.1
	4/25/2006*	ND<1.2	ND<1.2	ND<1.2
	5/10/2006	2.5	ND<1.1	ND<1.1
	7/25/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	1.3	ND<1.1	ND<1.1
1000 feet from Property Boundary				
VW-11	4/25/2006	1.5	ND<1.1	ND<1.1
	5/10/2006	1.8	ND<1.1	ND<1.1
	5/10/2006*	ND<1.1	ND<1.1	1.3
	7/25/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
VW-12	5/10/2006	ND<1.2	ND<1.2	4.3
	6/1/2006	ND<1.1	ND<1.1	6.7
	6/1/2006*	ND<1.2	ND<1.2	6.7
	7/25/2006	ND<1.2	ND<1.2	9.3
	1/23/2007	ND<1.2	ND<1.2	3.6
VW-13	5/10/2006	5.0	4.2	2.6
	6/1/2006	ND<1.3	2.4	5.3
	7/25/2006	ND<1.3	ND<1.3	2.8
	1/23/2007	ND<1.2	ND<1.2	ND<1.2
VW-14	5/10/2006	3.7	3.5	1.4
	6/1/2006	ND<1.3	4.0	1.5
	7/25/2006	ND<1.3	ND<1.3	ND<1.3
	1/23/2007	ND<1.1	ND<1.1	ND<1.1

ppbv -parts per billion by volume
* Duplicate sample collected at vapor well
[1] - Tracer gas breakthough in soil vapor well

FIGURES



2000 1000 0 2000

SCALE IN FEET

SITE LOCATION
POWAY LANDFILL
POWAY, CALIFORNIA

SOURCE:
NATIONAL GEOGRAPHIC (CALIFORNIA)
SEAMLESS USGS TOPOGRAPHIC MAPS
ON CD-ROM POWERED BY TOPO

Geosyntec consultants

DATE:	APRIL 2007	FIGURE
PROJECT NO.	SC0226-03-10	1-1

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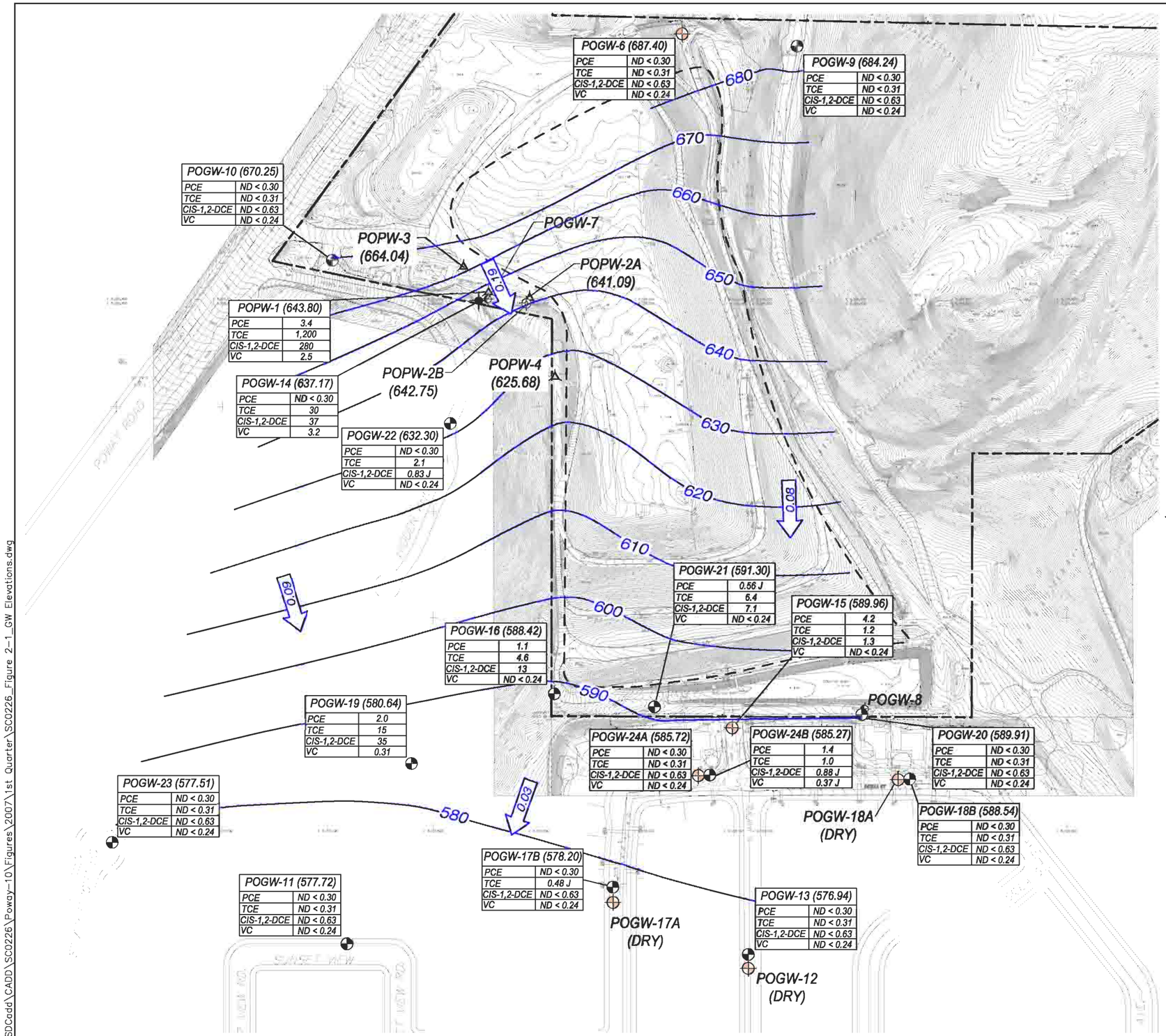

LEGEND

POGW-12	ALLUVIAL GROUNDWATER MONITOR WELL
POGW-9	UPPER FRACTURE ZONE GROUNDWATER MONITOR WELL
POPW-1	UPPER FRACTURE ZONE GROUNDWATER PIEZOMETER
POPW-2B	INTERMEDIATE FRACTURE ZONE GROUNDWATER PIEZOMETER
POGW-14	LOWER FRACTURE ZONE GROUNDWATER MONITOR WELL
POGW-8	DESTROYED GROUNDWATER MONITOR WELL
	APPROXIMATE PROPERTY BOUNDARY
	ESTIMATED LIMITS OF TRASH/REFUSE
	EXISTING PAVED ROAD
	EXISTING DIRT ROAD
620	GROUNDWATER ELEVATION CONTOUR (10 FT INTERVALS)
0.09	APPROXIMATE GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT (FT/FT)
POGW-19 (580.64) PCE 1.3 TCE 13 CIS-1,2-DCE 31 VC ND < 0.33	MONITOR WELL ID WITH GROUNDWATER ELEVATION AND PRIMARY COC CONCENTRATIONS IN µg/L

(J - COC DETECTED AT A CONCENTRATION BETWEEN THE METHOD DETECTION LIMIT AND THE REPORTING LIMIT, CONCENTRATION IS ESTIMATED)

NOTES:

1. *GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.*
2. *WELLS POGW-6, POGW-12, POGW-15, POGW-17A, POGW-18A, AND POGW-24A ARE ALLUVIAL WELLS AND ARE NOT USED IN GROUNDWATER CONTOURING. POPW-2B IS AN INTERMEDIATE FRACTURE ZONE WELL AND WAS NOT USED IN GROUNDWATER CONTOURING. POGW-14 IS A DEEP FRACTURE ZONE WELL AND WAS NOT USED IN GROUNDWATER CONTOURING.*
3. *COC - CONSTITUENTS OF CONCERN*

200 100 0 200

SCALE IN FEET

BASE MAP REFERENCE:
STEWART GEO TECHNOLOGIES JULY 2002

GROUNDWATER ELEVATIONS, FLOW DIRECTION AND COC CONCENTRATIONS
17 JANUARY 2007
POWAY LANDFILL
POWAY, CALIFORNIA

Geosyntec consultants

DATE: APRIL 2007

PROJECT NO. SC0226-03-10

FIGURE 2-1

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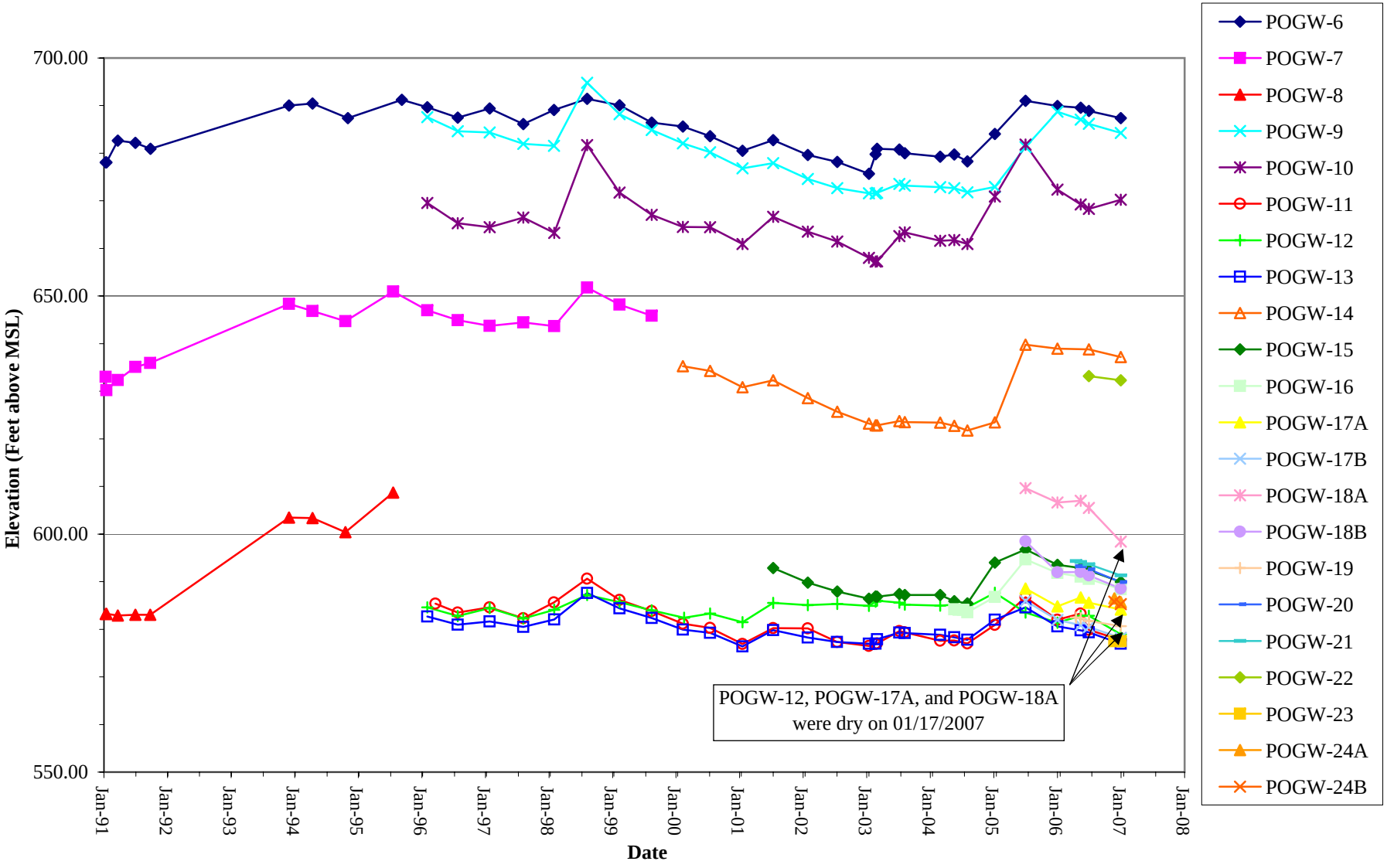
Figure 3-1
Groundwater Elevation Fluctuations
Poway Landfill

Geosyntec consultants



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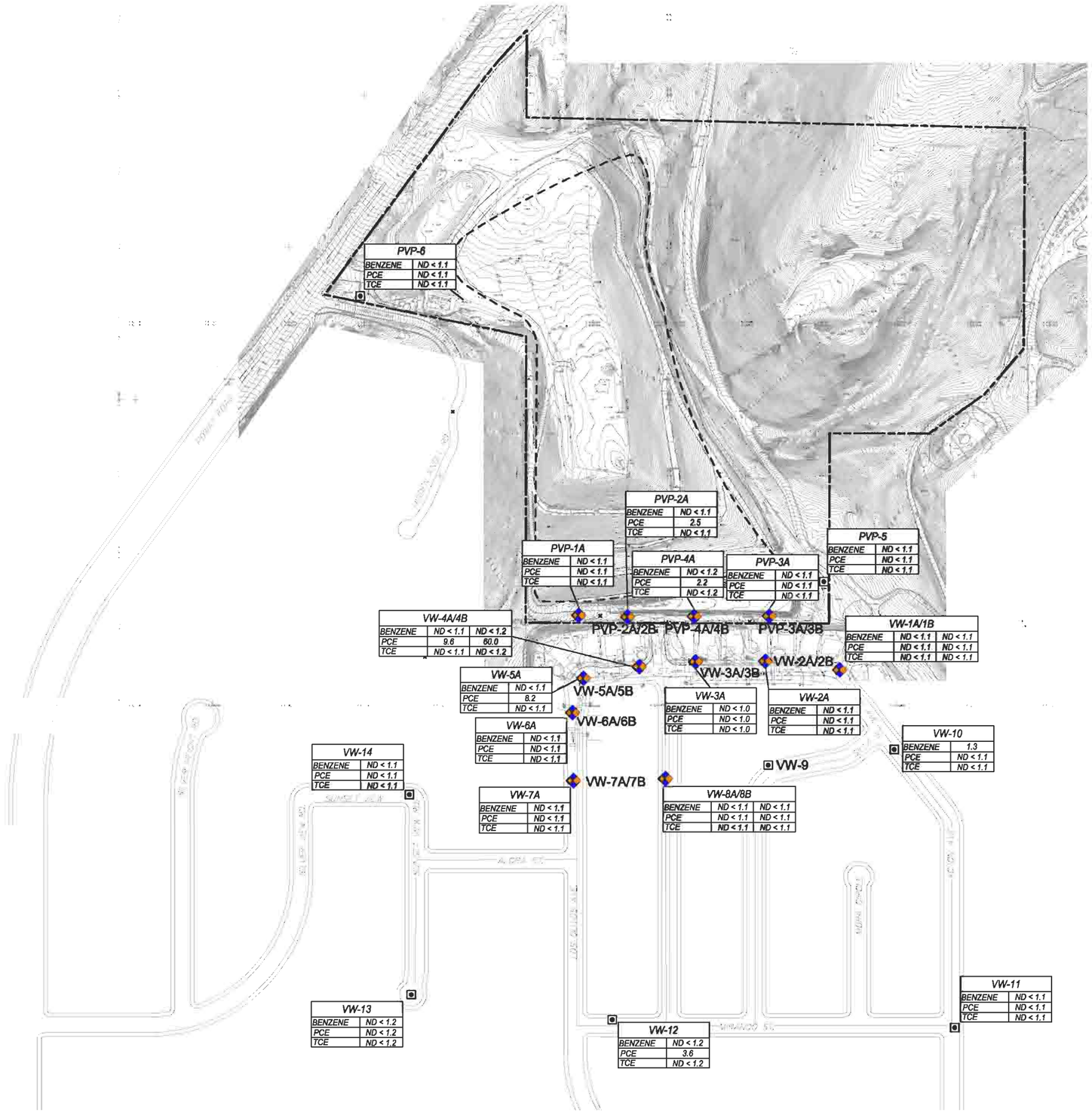

LEGEND

- SOIL VAPOR WELL CLUSTER
- VAPOR WELL (5 FEET BGS)
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE TRASH/REFUSE BOUNDARY
- EXISTING PAVED ROAD
- EXISTING DIRT ROAD
- VW-11 (BENZENE ND < 1.1; PCE ND < 1.1; TCE ND < 1.1) — SOIL VAPOR WELL ID WITH PRIMARY RISK-DRIVING COC CONCENTRATIONS IN PARTS PER BILLION BY VOLUME (ppbv)

NOTES:

1. CIS-1,2-DICHLORETHANE AND VINYL CHLORIDE WERE NOT DETECTED AT CONCENTRATIONS GREATER THAN THE REPORTING LIMIT IN ONSITE OR OFFSITE SOIL VAPOR SAMPLED COLLECTED DURING THE JANUARY 2007 SAMPLING EVENT.
2. ND - NON DETECT
3. COC - CONSTITUENTS OF CONCERN

N

300 150 0 300

SCALE IN FEET

BASE MAP REFERENCE:
STEWART GEO TECHNOLOGIES JULY 2002

SOIL VAPOR SAMPLE LOCATIONS AND COC CONCENTRATIONS
22 JANUARY 2007
POWAY LANDFILL
POWAY, CALIFORNIA

Geosyntec consultants

DATE: APRIL 2007

PROJECT NO. SC0226-03-10

FIGURE 4-1

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APPENDIX A

Groundwater and Soil Vapor Sampling and Analytical Procedures

GROUNDWATER AND SOIL VAPOR SAMPLING AND ANALYTICAL PROCEDURES

This appendix describes groundwater and soil vapor sampling and analytical procedures, including sample collection, handling, identification, and transportation; quality assurance/quality control samples; and analytical methods.

A.1 Groundwater Sample Collection

Dedicated groundwater pumping systems were used for sample collection in monitor wells POGW-6, POGW-9, POGW-10, POGW-12, POGW-13, POGW-14, POGW-15, POGW-16, POGW-17A, POGW-17B, POGW-18A, POGW-18B, POGW-19, POGW-20, POGW-21, POGW-23, and POGW-24B. Monitor wells POGW-11, POGW-22, and POGw-24A were purged and sampled using disposable bailers. Piezometer POPW-1 was purged using a portable pump and sampled using a disposable bailer during the current sampling period. Each dedicated pump system consists of a 1.6- or 2-inch-diameter, stainless steel, submersible Grundfos® pump connected to an electrical lead wire and discharge line.

Each well was purged as described above until at least 1.5 borehole volumes of groundwater were removed (for fast recharging wells) or to dryness (for slow recharging wells). Field parameters (pH, specific conductance, turbidity, dissolved oxygen, oxidation reduction potential, and temperature) were measured prior to and during purging. In addition, dissolved oxygen and oxidation reduction potential were also measured prior to purging. Purged groundwater was used for dust control at the landfill.

Groundwater was sampled directly from a disposable bailer or the dedicated discharge hose by slowing the pumping rate to a thin, slowly flowing stream and filling the sample bottles. The 40-milliliter (ml) bottles used for volatile organic analyses (VOAs) were filled completely and contained no air bubbles. Care was taken to protect the integrity of the samples.

A.1.1 Groundwater Sample Handling

Groundwater samples were handled, preserved, and bottled as follows:

ANALYSIS	PRESERVATIVE	SAMPLE BOTTLES
Volatile Organic Compounds	HCl, Ice	Three 40-ml VOAs

ANALYSIS	PRESERVATIVE	SAMPLE BOTTLES
Chloride, Nitrate, Sulfate, Carbonate, Bicarbonate, Calcium, Magnesium, Potassium, Sodium	Ice	One 1-liter poly
Total Organic Carbon, Chemical Oxygen Demand	H_2SO_4, Ice	One 250-ml glass
Total Dissolved Solids	Ice	One 1-liter poly

A.1.2 Groundwater Sample Transportation

The sample bottles were capped, labeled, sealed in plastic bags, stored on ice, and transported under chain-of-custody procedures in a sample container to the laboratory. If samples were not taken from the field directly to the laboratory, the samples were transported to the office of the personnel sampling the monitor wells, stored in a refrigerator in a locked storage area until the samples were transferred to the testing laboratory under chain-of-custody procedures.

A.2 Groundwater Quality Assurance/Quality Control Samples

A field blank, consisting of deionized water transferred from its original container to a sample container in the field, was collected to evaluate the potential for airborne VOCs to impact the groundwater samples during sample collection. One field blank was collected at the landfill per day of sampling. The location where the field blank was collected is noted on the sampling log.

A trip blank, provided by the laboratory, was used to evaluate whether VOC contamination occurred during sample transport or storage. A trip blank consists of a deionized water sample transported to the field by sampling personnel, shipped along with the groundwater samples to the laboratory, and analyzed for the same VOCs as the groundwater samples. One trip blank was analyzed with each sample shipment to the laboratory.

An equipment blank was collected in the field, prior to use of non-dedicated sampling equipment. The equipment blank consisted of deionized water, which was poured over decontaminated sampling equipment. The equipment blank is intended to assess the thoroughness of the decontamination procedures.

A.3 Groundwater Analytical Methods

Analytical methods requested for the groundwater samples were listed on each chain-of-custody form. Laboratory analyses for all constituents were performed at Calscience Environmental Laboratory in Garden Grove, California. This laboratory is certified under the California Department of Health Services Laboratory Program. The following sections briefly describe the analytical methods employed by the laboratory. The method detection limit (MDL) and reporting limit (RL) for each compound are reported on the certificates of analysis (Appendix C).

A.3.1 Organic Compounds

Groundwater samples and surface water samples were analyzed for VOCs using EPA Method 8260B. This method uses gas chromatography to separate and identify the sample constituents by mass spectrography. Detection limits are reported on the certificates of analysis (Appendix C) as both the RL and the MDL. The laboratory RL is the lowest concentration at which a detected compound can be quantified to within 10 percent of the constituents actual concentration (99% certainty). The MDL is the lowest concentration at which a compound can be detected (99% certainty). Prior to the first quarter 2007 sampling event, Calscience Environmental Laboratories conducted MDL studies as part of maintaining their state certification. The updated organic compound MDLs differ from previously reported MDLs. A "J" qualifier on the certificates of analysis and the analytical tables indicates compounds detected at trace concentrations between the MDL and the RL. Trace concentrations are too low for accurate quantification and are estimated by the laboratory.

A.3.2 Metals

Upon receipt at the laboratory, the groundwater samples for metals analysis were filtered and preserved. All metals were analyzed by EPA Method 6010B.

A.3.3 General Chemistry Parameters

Specific conductance, pH, temperature, dissolved oxygen, oxygen reduction potential, and turbidity were measured in the field. TDS was analyzed by EPA Method 160.1. Chemical oxygen demand was analyzed using EPA Method 410.4.

A.3.4 Anions

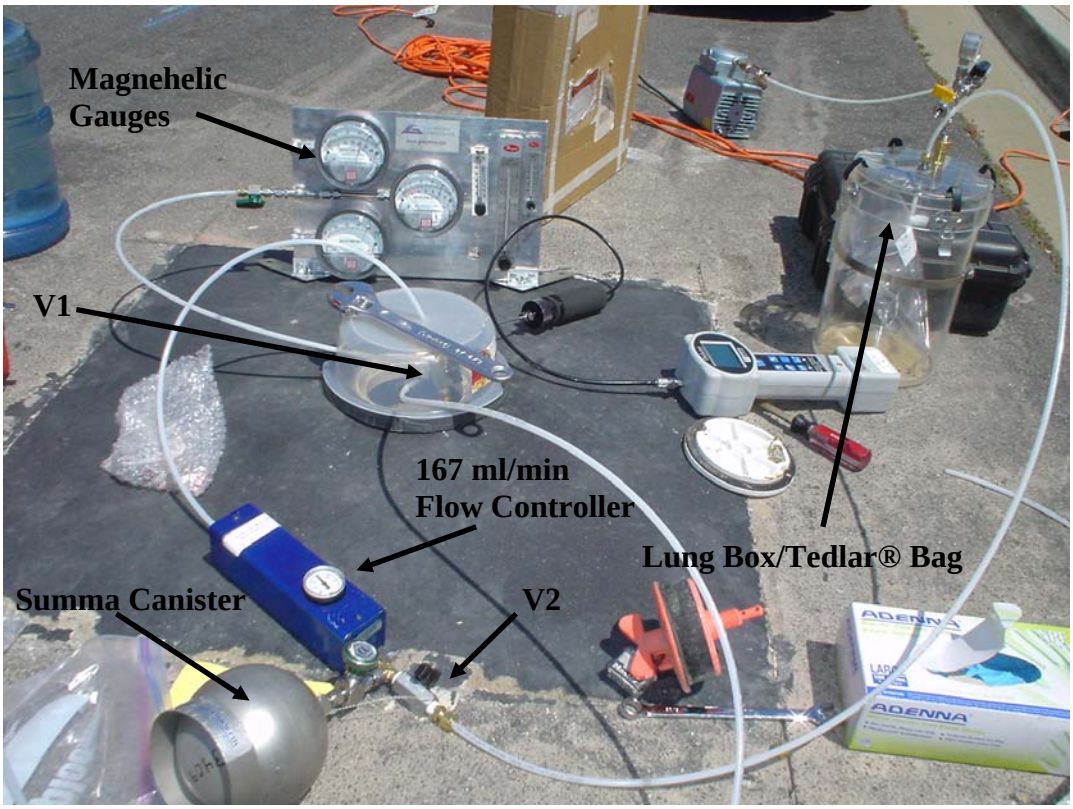
Sulfate, nitrate as nitrogen, and total organic carbon, were analyzed using EPA Methods 375.4, 353.3, 354.1, 376.2 and 415.1, respectively. Bicarbonate and carbonate were

analyzed using standard method SM2320B. Chloride was analyzed using standard method SM 4500-Cl-C.

A.4 Soil Vapor Sample Collection

Prior to sampling, soil vapor wells which previously could not be sampled due to saturated or low-permeability soil conditions (PVP-1, PVP-2B, PVP-3B, PVP-4B, VW-2B, VW-3B, VW-5B, VW-6B, VW-7B, and VW-9) were tested to see if a vapor sample could be obtained. Based on previous experience, if a vacuum of greater than 100 in. of water column is developed in the soil vapor well during purging, a soil vapor sample cannot be collected. A vacuum of greater than 100 inches of water column was developed in each of these soil vapor wells; therefore, no soil vapor samples were collected from these soil vapor wells. The remaining soil vapor wells were purged and sampled during the January 2007 sampling event as follows:

- The soil vapor wells were attached to a Magnehelic gauge set, laboratory supplied and certified clean 167 ml/min flow controller, lung box/Tedlar® bag and laboratory supplied and certified clean summa canister as shown below.



- With V2 closed, V1 was opened and the initial vacuum (if any) was recorded on the field logs.
- The lung box was evacuated to a vacuum of approximately -20 to -15 in. Hg and V2 opened to purge approximately three borehole volumes. The maximum well head vacuum developed during purging was recorded on the field logs.
- When approximately three borehole volumes had been collected in the Tedlar® bag, V2 was closed, and the vacuum in the lung box dissipated.
- The purged soil vapor in the Tedlar® bag was screened for helium using the Dielectric helium detector, and fixed gases (oxygen, carbon dioxide, and methane) using the Landtech GEM 2000 landfill gas meter. Nitrogen was recorded as the balance gas (100% minus the sum of the O_2, CO_2, and CH_4 concentrations) on the Landtech landfill gas meter.
- Following purging, with V2 still closed, the summa canister was opened to collect a sample directly from the vapor well. The summa canisters were filled until a residual vacuum (less than -5 in. Hg) remained, and then closed. The maximum well head vacuum developed during sampling was recorded on field logs.
- Following collection of the soil vapor sample, with the closed summa canister still attached, V2 was opened and a small volume of soil vapor was again collected into the Tedlar® bag to screen for helium and fixed gases.
- If helium was not detected at a concentration greater than 1.5% by volume, the summa canister was removed from the sampling train and capped with a brass compression cap for transport to the laboratory.

During the first quarter 2007 soil vapor sampling event quality control field blanks (QCFB) were not collected because there were not enough summa canisters. An additional summa canister was ordered for the second day of sampling (23 January 2007). However, the shipment was misrouted by the cargo carrier and did not arrive in time to collect a sample.

A.4.1 Soil Vapor Sample Handling

Soil vapor samples were transported under chain of custody procedures to the analytical laboratory.

A.4.2 Soil Vapor Quality Assurance/Quality Control Samples

One duplicate soil vapor sample and one trip blank were submitted to the laboratory along with the soil vapor samples at the end of each day of sampling.

A.5 Soil Vapor Analytical Methods

Soil vapor and QA/QC samples were submitted to Air Toxics Limited, in Folsom, California, for analysis of VOCs by Modified EPA Method TO-15. The modifications to EPA Method TO-15 made by Air Toxics are summarized in the case narratives of the Laboratory Analytical Certificates presented in Appendix C.

APPENDIX B

Groundwater and Soil Vapor Sample Collection and Field Calibration Logs

Groundwater Collection and Field Calibration Logs

BBC ENVIRONMENTAL, INC.

3593 Adams Avenue, San Diego, CA 92116

January 19, 2007

Mr. Dave Skippon
GeoSyntec Consultants
10875 Rancho Bernardo Rd., Suite 200
San Diego, CA 92127
Via Email: Mr. Dave Skippon < dskippon@geosyntec.com >

RE: TRANSMITTAL OF THE FIRST QUARTER 2007 GROUNDWATER MONITORING AND SAMPLING FIELD DATA SHEETS FOR THE POWAY LANDFILL

Mr. Skippon:

BBC Environmental, Inc. (BBC) performed groundwater monitoring and sampling activities at the above referenced location on January 17th & 18th, 2007. Please find enclosed one copy of the Groundwater Sampling Collection Log and corresponding Chain(s) of Custody for this third quarter event.

Should you have any questions with regards to this matter, please do not hesitate to contact me directly at (619) 546-7165. The opportunity to be of service is greatly appreciated

Thank You,
BBC ENVIRONMENTAL, INC.

Mr. Scott E. Lutz
Environmental Scientist

Enclosures (5):
- Groundwater Gauging Sheet dated January 17, 2007
- Groundwater Sampling Collection Logs dated Jan. 17-18, 2007
- Calibration Log dated January 17-18, 2007
- Chain(s) of Custody dated January 17-18, 2007
- Summary of Sampling Procedures dated January 17-18, 2007

SUMMARY OF SAMPLING PROCEDURES
COUNTY OF SAN DIEGO INACTIVE LANDFILL SITES

Groundwater sampling procedures at the County of San Diego Inactive Landfill Sites shall follow procedures outlined in the most current version of the County of San Diego Department of Environmental Health Site Assessment and Mitigation (SAM) manual. The following is intended as a summary of these procedures, and provides a means for the subcontractor (BBC Environmental) to certify that these procedures were followed.

Water Level Gauging

Water levels will be gauged prior to the start of each sampling event using an electronic depth sounder to the nearest 1/100 of a foot from the surveyed elevation point on the top of each well casing or sounding tube. Any immiscible fluids on the water level meter will be noted on the sampling logs. The water level meter will be decontaminated between wells by washing in a solution of Alquinox, followed by rinsing with distilled water.

The condition of each monitor well shall be documented on the sampling forms (i.e. well seal, well bolts, well pad, well lock). Should any wells be in need of repair (i.e., missing bolts, inoperable well locks, or other damage) notify GeoSyntec immediately of the damage.

Well Purging and Sampling

The dedicated Grundfos sampling system in each monitor well shall be used for purging and sampling. If the sampling system is non-operational a single-use disposable bailer or portable Grundfos pump shall be used. Purging at domestic or corrective action wells shall consist of removing 50 gallons of water prior to sampling.

Fast recovering monitor wells (>80 percent recovery in two hours)

A minimum of one and one half borehole volumes of water should be removed from each well if field water quality measurements have stabilized within 10 percent. If field water quality parameters have not stabilized, continue purging until field parameters have stabilized or until 3 borehole volumes have been removed, whichever occurs first.

Once purging is completed and field parameters have stabilized fast recovering wells may be sampled after the water level has recovered to at least 80 percent of the pre-purge water level.

Slow recovering monitor wells (<80 percent recovery in two hours)

Remove one borehole volume of water. Obtain sample as soon after 2 hours as possible.

Sample Collection and Handling

Groundwater samples will be collected directly from the dedicated discharge tubing of the pump into the appropriate containers supplied by the analytical laboratory. Groundwater samples from domestic wells should be collected from the spigot closest to the wellhead. Volatile organics analyses (VOA) samples should be collected by slowing the pumping rate to a thin flowing stream, and filling the sample bottles. The VOA sample bottles shall be completely filled and contain no air bubbles.

A single-use disposable polyethylene bailer may be used for sampling slow recharge wells. The nylon cord used to lower the bailer should be discarded after each use.

Immediately following sample collection, the groundwater samples will be capped, labeled, sealed in plastic bags, and placed into a sample cooler maintained at a temperature of about 4°C. The individual who collects the samples will prepare them for shipment, complete the chain-of-custody form, and sign the chain of custody form when transferring the samples to the laboratory courier. All groundwater samples should be submitted to the analytical laboratory within 24 hours of sample collection.

Equipment Decontamination

Portable Pump Decontamination

The exterior of the pump and tubing will be cleaned by washing in a solution of Alquinox, and rinsing with distilled water. The interior of the pump and tubing shall be cleaned by circulating a solution of Alquinox for several minutes. The interior of the pump and tubing will be rinsed with distilled water. A rinsate equipment blank shall be collected following pump decontamination in order to ensure equipment decontamination procedures were adequate.

Calibration Records

Water quality meters shall be calibrated at the start of each day of sampling, or as needed during the sampling event, and documented on a calibration log. At the conclusion of each day of sampling, calibration drift will be measured by placing each water quality meter into the appropriate calibration solutions, and documenting on the calibration log.

Field Forms

Field data including chain of custody documentation, sampling sheets, water level gauging sheets and calibration records shall be faxed to GeoSyntec Consultants on the day groundwater samples are submitted to the analytical laboratory. Hard copies of the field sheets shall be submitted to GeoSyntec within two weeks following sampling.

I certify that the procedures detailed herein were followed during groundwater sampling activities at the Poway **landfill on** 1/17-18/07 **by** Rory Klinger **(BBC Environmental).**

Scott Lutz

GEOSYNTEC CONSULTANTS

POWAY LANDFILL
GROUNDWATER GAUGING SHEET

Date: 1/17/2007
Sampler: SEL, BBC Environmental, Inc.

Well #	Depth to Water	Previous DTW	Gauge Time	Well Box Type	Well Cap Type	Survey Point
POGW-6	7.95	6.47	8:48	MON	Non-INW	TOC TO N.
POGW-9	40.81	38.86	9:11	M/D	INW	TOC TO N.
POGW-10	40.31	42.23	8:15	MON	INW	TOC TO N.
POGW-11	50.99	48.81	8:46	Emco Wheaton	INW	TOC TO N.
POGW-12	15.50/DRY	11.86	9:10	M/D	INW	TOC TO N.
POGW-13	17.94	15.54	9:14	M/D	INW	TOC TO N.
POGW-14	85.44	83.80	8:30	MON	INW	TOC TO N.
POGW-15	16.64	14.26	8:58	M/D	INW	TOC TO N.
POGW-16	55.07	52.92	9:40	MON	INW	TOC TO N.
POGW-17A	17.98/DRY	17.03	8:50	Emco Wheaton	INW	TOC TO N.
POGW-17B	24.30	22.07	8:54	Emco Wheaton	INW	TOC TO N.
POGW-18A	16.45/DRY	10.92	9:03	Emco Wheaton	INW	TOC TO N.
POGW-18B	28.00	25.21	9:06	Emco Wheaton	INW	TOC TO N.
POGW-19	71.98	70.90	8:30	MON	Non-INW	TOC TO N.
POGW-20	30.09	27.39	9:31	E/W 2 9/16"	INW	TOC TO N.
POGW-21	26.62	24.29	9:35	E/W 2 9/16"	INW	TOC TO N.
POGW-22	141.56	140.68	9:32	E/W 2 9/16"	INW	TOC TO N.
POGW-23	31.99	40.00	8:44	Emco Wheaton	INW	TOC TO N.
POGW-24A	18.51	19.60	9:18	Emco Wheaton	CAP	TOC TO N.
POGW-24B	18.90	45.10	9:23	E/W 2 9/16"	INW	TOC TO N.
POPW-1	80.27	78.86	8:26	MON	NO-PUMP	TOC TO N.
POPW-2A	81.65	80.49	8:26	M/D	NO-PUMP	TOC TO N.
POPW-2B	80.00	78.23	8:42	M/D	NO-PUMP	TOC TO N.
POPW-3	60.67	63.28	8:21	M/D	NO-PUMP	TOC TO N.
POPW-4	80.81	79.70	8:34	MON	NO-PUMP	TOC TO N.

-- Not Applicable, MON = Monument, M/D = Morrison/Dubuque, INW = Instrumentation West, TOC to N. = Top of Casi

Poway Landfill
Groundwater Sample Collection Log
POGW-6

Well Data:

Sample Type: Groundwater
Well Depth (ft): 34.60
Casing Elevation (ft): 695.35

Weather: Sunny 60°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 25

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 7.95
Feet of Water in Well: 26.65
Borehole Volume (gal): X 1.5 = 40.0
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 60.0

Immiscible layer Y/N?: N
Max. depth during purging (ft): 17.00'
80 percent recovery: 9.76
Depth at time of sampling (ft): 9.76
Total Volume Purged (gal.): ~~80%~~ 60.0

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1357	5.15	1299	21.52	1.2	0.91	84	—	0
	1402	5.94	1294	21.48	1.0	0.25	86	↓	20
	1408	5.75	1318	21.22	6.7	0.19	83		40
	1414	5.64	1360	21.31	2.0	0.25	78	3.5	60
	1414	Stopped Purging			—	—	—	—	60
Sample	1433	5.70	1397	21.23	2.0	0.78	-16	—	—

% Recovered: 80%
Depth of Pump (feet): 31
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1433
Sample ID: POGW-6
COC #: 1227
Field Crew: RJX/SEL
Samplers Signature:

Comments: 215 Hz
Obstruction @ 17'

322.3
342.3
362.3
382.3

120

Poway Landfill
Groundwater Sample Collection Log
POGW-9

Well Data:

Sample Type: Groundwater
Well Depth (ft): 84.36
Casing Elevation (ft): 725.05

Weather: Clear 65°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 23

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 40.81
Feet of Water in Well: 43.55
Borehole volume (gal): X 1.5 = 65.3
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 84.36 → Dry
80 percent recovery: ~~87.19~~ 42.52
Depth at time of sampling (ft): 78.04
Total Volume Purged (gal.): 36.5

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0958	6.26	822.1	20.82	1.5	2.38	145	—	0
	1004	6.22	819.1	20.82	2.7	2.42	136		20.0
	1013	6.22	830.8	20.59	25.8	1.64	111		36.5
	1013	Purge to Bottom			—	—	—	—	36.5
Sample	1302	6.53	870.0	20.90	9.8	6.47	79	—	—

% Recovered: 15%
Depth of Pump (feet): 81
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1302
Sample ID: POGW-9
COC #: 1227
Field Crew: RJK / SEL
Samplers Signature:

Comments: 235 Hz

224.9
244.9
264.9
290.2
*

Poway Landfill
Groundwater Sample Collection Log
POGW-10

Well Data:

Sample Type: Groundwater
Well Depth (ft): 53.86
Casing Elevation (ft): 710.56

Weather: Clear 68°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 23

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 40.31
Feet of Water in Well: 13.55
Borehole Volume (gal): X 1.5 = 20.3
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 53.86 → Dry
80 percent recovery: 43.02
Depth at time of sampling (ft): 46.60
Total Volume Purged (gal.): 13.5

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1027	6.51	1072	22.07	0.7	5.63	105	—	~~0~~
	1039	6.34	960.7	23.19	0.2	6.51	95	↓	6.0
	1048	6.43	1043	23.33	0.1	5.81	86	↓	11.0
	1055	6.45	1057	23.51	10.2	5.53	78	0.5	13.5
	1055	Stop Purged to Bottom			—	—	—	—	13.5
Sample	1323	6.53	1049	22.23	0.5	6.76	77	—	—

% Recovered: ~~0.4~~ 54% Depth of Pump (feet): 50
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1323
Sample ID: POGW-10
COC #: 1227
Field Crew: RJK/SEL
Samplers Signature:

Comments: 155 Hz
switch to 5 gal Bucket @ 1.8 gal.
no longer turns flowMeter.

261.4
267.4
273.4
281.7

Poway Landfill
Groundwater Sample Collection Log
POGW-11

Well Data:

Sample Type: Groundwater
Well Depth (ft): 54.20
Casing Elevation (ft): 628.71

Weather: Sunny 60°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 19

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 50.79
Feet of Water in Well: 3.21
Borehole Volume (gal): 3.21 X 1.5 = 48
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 54.20 > DRY
80 percent recovery: 51.63
Depth at time of sampling (ft): 51.99
Total Volume Purged (gal.): 3.1

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1059	6.42	1808	21.66	933	5.49	144	-	1
	1105	6.54	1813	21.80	1638.1	4.93	135	↓	2.4
	1109	6.53	1877	21.91	245.1	4.91	153	0.3	3.1
	1109	PURGED	TO BOTTOM	-	-	-	-	-	3.1
Sample	1313	6.44	1875	21.95	2751	4.95	140	-	3.1

% Recovered: 69%
Depth of Pump (feet): 51
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO_4, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1313
Sample ID: POGW-11
COC #: 1227
Field Crew: SEL/RJR
Samplers Signature:

Comments: ↓ WATER ABOVE PUMP. PULLED PUMP. HAND BAILED TO BOTTOM

Poway Landfill
Groundwater Sample Collection Log
POGW-12

Well Data:

Sample Type: Groundwater
Well Depth (ft): 15.76
Casing Elevation (ft): 594.72

Weather: Sunny 60°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 12

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 15.50
Feet of Water in Well: 0.26
Borehole Volume (gal): X 1.5 =
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?:
Max. depth during purging (ft):
80 percent recovery:
Depth at time of sampling (ft):
Total Volume Purged (gal.):

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge									
				WELL IS		DRY			
Sample									

% Recovered:
Depth of Pump (feet): 13
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07
Sample ID: POGW-12
COC #:
Field Crew: SEL/RJK
Samplers Signature:

Comments:

Poway Landfill
Groundwater Sample Collection Log
POGW-13

Well Data:

Sample Type: Groundwater
Well Depth (ft): 52.52
Casing Elevation (ft): 594.88

Weather: Sunny 55°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 25

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 17.94
Feet of Water in Well: 34.58
A) Casing volume above filter pack: 9.58 X 0.65 = 6.3
B) Filter Pack Volume (gal): 25X1.5 = 37.5
Borehole volume (gal): A + B = 43.8
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 65.7

Immiscible layer Y/N?: N
Max. depth during purging (ft): 38.15
80 percent recovery: 21.98
Depth at time of sampling (ft): 21.98
Total Volume Purged (gal.): 65.7

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0843	6.71	1594	22.03	15.2	2.97	166	-	∅
	0851	6.78	1625	22.14	3.6	3.44	126	↓	21.9
	0859	6.81	1635	22.21	4.5	3.42	132	↓	43.8
	0908	6.84	1647	22.70	4.4	3.61	129	2.6	65.7
	0908	Stopped Purging			-	—	-	-	65.7
Sample	0918	6.67	1594	23.39	1.1	2.28	166	-	65.7

% Recovered: 80%
Depth of Pump (feet): 50
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 0918
Sample ID: POGW-13
COC #: 1228
Field Crew: SEL/RJK
Samplers Signature:

Comments: 1024 1243 1462 1681 1857 2115

Poway Landfill
Groundwater Sample Collection Log
POGW-14

Well Data:

Sample Type: Groundwater
Well Depth (ft): 225.68
Casing Elevation (ft): 722.61

Weather: Clear 45°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 21

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 85.44
Feet of Water in Well: 140.24
Borehole Volume (gal): X 1.5 = 210.4
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 225.68
80 percent recovery: 113.49
Depth at time of sampling (ft): —
Total Volume Purged (gal.): 87.7

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0726	7.16	334.1	22.34	9.6	1.63	86	—	0
	0738	6.33	339.8	22.65	7.9	0.09	-51		65
	0749	[illegible]	341.0	21.96	8.3	0.17	-77		87.7
	0795	Purge to Bottom		—	—	—	—	—	87.7
Sample	1011	6.07	962.1	22.41	50.7	1.36	-9	—	—

% Recovered: —
Depth of Pump (feet): 223
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/12/07 1011
Sample ID: POGW-14
COC #: 1228
Field Crew: RJK / SEL
Samplers Signature:

Comments: Hard Obstruction @ 20' - unable to regauge

✓ 382.4 ~~470~~
432.4 448.4
522.4
592.8

County of San Diego
Landfill Management

First Quarter 2007

Geosyntec Consultants

Poway Landfill
Groundwater Sample Collection Log
POGW-15

Well Data:

Sample Type: Groundwater
Well Depth (ft): 24.29
Casing Elevation (ft): 606.60

Weather: Sunny 60°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 10
Filter Pack (ft): 24

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 16.64
Feet of Water in Well: 7.85
Borehole Volume (gal): 7.85 X 1.5 = 11.5
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 24.29 -> DRY
80 percent recovery: 18.21
Depth at time of sampling (ft): 18.57
Total Volume Purged (gal.): 10.2

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1129	7.26	1299	22.31	6.56	11.49	85	–	4
	1129	7.28	1258	23.05	6.7	8.54	83	1	5.8
	1133	7.27	1440	22.62	11.7	10.30	108	1.5	10.2
	1133	PURGED TO BOTTOM			–	–	–	–	10.2
Sample	1333	7.26	1730	22.69	10.1	3.99	15	–	10.2

% Recovered: 77%
Depth of Pump (feet): 21
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO_4, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/9/07 1333
Sample ID: POGW-15
COC #: 1227
Field Crew: SEL/RDK
Samplers Signature:

Comments: 1.5 HZ

sampling sheets 1q07 xls/Poway

Poway Landfill
Groundwater Sample Collection Log
POGW-16

Well Data:

Sample Type: Groundwater
Well Depth (ft): 69.50
Casing Elevation (ft): 643.49

Weather: Clear 55°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 8
Filter Pack (ft): 22

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 55.07
Feet of Water in Well: 14.93
Borehole Volume (gal): X 1.1 = ~~15.9~~ 15.9
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 23.8

Immiscible layer Y/N?: N
Max. depth during purging (ft): 69.50
80 percent recovery: 57.16
Depth at time of sampling (ft): 55.77
Total Volume Purged (gal.): 14.5

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0816	6.10	1129	22.36	0.3	1.46	-52	—	7
	0821	6.10	1049	22.71	5.7	0.70	10	↓	8
	0828	5.92	1111	23.30	2.1	0.60	21	1.2	14.5
	0828	Purge to Bottom			—	—	—	—	14.5
Sample	1026	6.56	1275	23.52	0.6	2.25	45	—	—

% Recovered: 95%
Depth of Pump (feet): 68
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 1026
Sample ID: POGW-16
COC #: 1228
Field Crew: RJK/SEL
Samplers Signature:

Comments: 200Hz

14701
✓478.1
486.1
494.0

18

Poway Landfill
Groundwater Sample Collection Log
POGW-17A

Well Data:

Sample Type: Groundwater
Well Depth (ft): 18.5
Casing Elevation (ft): 602.64

Weather: Sunny, 65°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 11.5

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 17.98
Feet of Water in Well: 0.52
Borehole Volume (gal): X 0.8 =
Minimum Purge Volume (gal): Borehole Volume X 1.5 =

Immiscible layer Y/N?: N
Max. depth during purging (ft):
80 percent recovery:
Depth at time of sampling (ft):
Total Volume Purged (gal.):

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge									
Sample									

WELL IS DRY

% Recovered:
Depth of Pump (feet): 16.5
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07
Sample ID: POGW-17A
COC #:
Field Crew: SEL/RJK
Samplers Signature:

Comments:

Poway Landfill
Groundwater Sample Collection Log
POGW-17B

Well Data:

Sample Type: Groundwater
Well Depth (ft): 45
Casing Elevation (ft): 602.50

Weather: Sunny 50°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 10
Filter Pack (ft): 12.5

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 24.30
Feet of Water in Well: 20.7
A) Casing volume above filter pack: 8.2 X 0.17 = 1.4
B) Filter Pack Volume (gal): 12.5 X 1.1 = 13.75
Borehole volume (gal): A + B = 15.2
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 22.8

Immiscible layer Y/N?: N
Max. depth during purging (ft): 30.33
80 percent recovery: 25.51
Depth at time of sampling (ft): 25.51
Total Volume Purged (gal.): 22.8

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0757	6.81	1977	20.1	65.3	3.31	180	–	9
	0802	6.70	1909	21.54	13.4	1.94	191		7.6
	0807	6.70	1925	21.07	4.9	1.54	172	↓	15.2
	0812	6.72	1955	21.92	3.1	1.13	165	1.5	22.8
	0812	Stopped	12:24	-	-	-	-	-	22.8
Sample	0815	6.70	20.7	21.87	2.8	1.55	170	–	22.8

% Recovered: 80%
Depth of Pump (feet): 44
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 0815
Sample ID: POGW-17B
COC #: 1228
Field Crew: SEL/DJK
Samplers Signature:

Comments: 140 HZ PURGE INTO BUCKET 1.76

Poway Landfill
Groundwater Sample Collection Log
POGW-18A

Well Data:

Sample Type: Groundwater
Well Depth (ft): 18
Casing Elevation (ft): 616.42

Weather: SUNNY 60°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 11.5

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): DRY
Feet of Water in Well:
A) Casing volume above filter pack: X 0.17 =
B) Filter Pack Volume (gal): X 0.8 =
Borehole volume (gal): A + B =
Minimum Purge Volume (gal): Borehole Volume X 1.5 =

Immiscible layer Y/N?:
Max. depth during purging (ft):
80 percent recovery:
Depth at time of sampling (ft):
Total Volume Purged (gal.):

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge									
			WELL IS		DRY				
Sample									

% Recovered:
Depth of Pump (feet): 16
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07
Sample ID: POGW-18A
COC #:
Field Crew: SEL
Samplers Signature:

Comments:

Poway Landfill
Groundwater Sample Collection Log
POGW-18B

Well Data:

Sample Type: Groundwater
Well Depth (ft): 45
Casing Elevation (ft): 616.54

Weather: Sunny 65°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 10
Filter Pack (ft): 12.5

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 28.00
Feet of Water in Well: 17.00
A) Casing volume above filter pack: 4.5 X 0.17 = 0.8
B) Filter Pack Volume (gal): 12.5 X 1.1 = 13.8
Borehole volume (gal): A + B = 14.6
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 21.9

Immiscible layer Y/N?: N
Max. depth during purging (ft): 41.25
80 percent recovery: 30.65
Depth at time of sampling (ft): 30.65
Total Volume Purged (gal.): 21.4

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1348	6.55	1321	22.01	333.1	2.89	94	–	~~0~~
	1400	6.83	1246	23.76	[illegible]	3.54	106	↓	7.3
	1411	6.84	1244	22.46	78.9	5.32	116	↓	14.6
	1423	6.85	1249	22.71	61.7	5.47	117	0.6	21.9
	1423	Stopped Pumping		–	–	–	–		21.4
Sample	1451	6.65	1339	22.02	219.7	5.70	123	–	

% Recovered: 80%
Depth of Pump (feet): 44
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1451
Sample ID: POGW-18B
COC #: 1227
Field Crew: SEC/RSC
Samplers Signature:

Comments: 133 Hz

Poway Landfill
Groundwater Sample Collection Log
POGW-19

Well Data:

Sample Type: Groundwater
Well Depth (ft): 85
Casing Elevation (ft): NA

Weather: Sunny 60°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 6

Well Purging:

Equipment: 1.6" Dedicated Pump
Depth to Water Surface (ft): 71.98

Immiscible layer Y/N?: N

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	DTW (ft)	Pump Rate (ml/min)
Purge	1126	7.30	2382	20.00	109.8	7.14	198	71.78	—
	1131	6.52	2100	21.33	2365	7.01	24	72.11	200
	1135	6.50	2142	22.06	2371	7.21	22	72.17	200
	1138	6.50	2145	22.05	2247	7.07	24	72.22	200
	1142	6.50	2147	22.07	2741	7.01	25	72.27	~200
Sample	1142	6.50	2147	22.07	2741	7.01	25	72.27	~200

Depth of Pump (feet): 80
Purge Water Disposal: Collected and Sprayed

D= ~~25~~ 10 / D=8
R= 28 / R=28

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 1142
Sample ID: POGW-19
COC #: 1278
Field Crew: SEL/RJK
Samplers Signature:

Comments: VERY SILTY

Poway Landfill
Groundwater Sample Collection Log
POGW-20

Well Data:

Sample Type: Groundwater
Well Depth (ft): 43
Casing Elevation (ft): NA

Weather: Clear 65°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 4 (filter pack)
Filter Pack (ft): 16

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 30.09
Feet of Water in Well: 13.91
Borehole Volume (gal) X 0.3 = 4.2
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 6.3

Immiscible layer Y/N?: N
Max. depth during purging (ft): 31.50
80 percent recovery: 30.37
Depth at time of sampling (ft): 30.37
Total Volume Purged (gal.): 6.3

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1131	5.36	1258	21.02	61.8	3.10	22	—	0
	1144	5.74	1296	22.32	8.6	3.08	26	0.2	2.1
	1202	5.85	1353	23.98	2.8	3.38	31	0.1	4.2
	1215	5.86	1377	23.84	21.6	3.51	34	0.2	6.3
	1215	Stopped Pumping —			—	—	—	—	6.3
Sample	1230	5.73	1396	22.87	15.2	5.29	38	—	—

% Recovered: 80%
Depth of Pump (feet): 41
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 1230
Sample ID: POGW-20
COC #: 1228
Field Crew: RJX / SEL
Samplers Signature:

Comments: 130 Hz ↓ 126 Hz

12.1

Poway Landfill
Groundwater Sample Collection Log
POGW-21

Well Data:

Sample Type: Groundwater
Well Depth (ft): 32.9
Casing Elevation (ft): NA

Weather: Clear 55°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 19

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 26.62
Feet of Water in Well: 6.28
Borehole Volume (gal) X 0.8 = 5.0
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 7.5

Immiscible layer Y/N?: N
Max. depth during purging (ft): 32.90
80 percent recovery: 27.88
Depth at time of sampling (ft): 26.90
Total Volume Purged (gal.): 7.5

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)	
		6.29	2159	23.81	26.6	2.15	32	—	⊗	
Purge	0840	~~5.95~~	~~1.429~~	~~24.31~~	~~26.3~~	—	—	—	—	
	0842	6.28	2152	23.89	26.2	2.07	30	1.0	2.1	Reduced to 0.5 gpm
	0857	6.15	2170	23.55	5733	2.55	31	—	2.1	Reduced to 0.3 gpm
	0858	6.13	2169	23.50	451.0	2.60	33	0.9	3.0	Reduced
	0920	5.50	2218	23.40	93.5	1.36	30	—	3.0	
Sample	1056	[redacted]	2249	24.82	431	2.56	37	—	—	

% Recovered: 5.15 96%
Depth of Pump (feet): 31
Purge Water Disposal: Collected and Sprayed

0930	5.53	2217	23.85	24.5	1.37	24	0.2	5.0	
0948	5.53	2229	25.16	44.1	1.38	24	0.2	7.5	Stopped Purging

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 1056
Sample ID: POGW-21
COC #: 1228
Field Crew: RJK/SEL
Samplers Signature:

Comments: 150Hz @0.99gpm 484.6
↓145Hz @0.79gpm 486.7
switched to Bucket Purge @120Hz 487.6

Poway Landfill
Groundwater Sample Collection Log
POGW-22

Well Data:

Sample Type: Groundwater
Well Depth (ft): 200
Casing Elevation (ft): NA

Weather: Sunny 40°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 6
Filter Pack (ft): 19

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 141.56
Feet of Water in Well: 58.44
Borehole Volume (gal) 58.44 x 0.5 = 29.2
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 43.8

Immiscible layer Y/N?: N
Max. depth during purging (ft): Dry 200'
80 percent recovery: 153.25
Depth at time of sampling (ft): 171.50
Total Volume Purged (gal.): 10.2

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0700	7.10	1011	22.31	977	0.27	-170	↓	9
	0716	7.08	9767	21.69	1753.3	0.35	110	↓	50
	0730	7.07	9651	21.75	1760.1	0.40	104	0.34	10.2
	0730	PURGED TO BOTTOM			-	-	-		
Sample	1340	7.41	820.8	20.89	255.2	5.73	52	—	—

% Recovered: 49%
Depth of Pump (feet): 198
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/18/07 1340
Sample ID: POGW-22
COC #: 1228
Field Crew: SEL/RJK
Samplers Signature: [signature]

Comments: [illegible] PURGE [illegible] PURGE [illegible] 5 GALLON BUCKET

HAND BAILED PURGE IN ALLUVIUM HAND BAILED SAMPLE 28.5

Poway Landfill
Groundwater Sample Collection Log
POGW-23

Well Data:

Sample Type: Groundwater
Well Depth (ft): 40
Casing Elevation (ft): NA

Weather: Sunny 60°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 13

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 31.99
Feet of Water in Well: 8.01
Borehole Volume (gal) 8.01 x 0.8 = 6.4
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 40.0 → DRY
80 percent recovery: 33.59
Depth at time of sampling (ft): 34.08
Total Volume Purged (gal.): 5.8

	Time	pH 7.49	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1027	[illegible]	1942	21.62	115.9	4.35	212	–	0
	1030	7.12	1923	22.53	42.3	7.73	158	↓	3.2
	1034	7.15	1920	22.65	35.7	7.64	160	0.4	5.8
	1038	Purged	to 80%	–	–	–	–	–	5.8
Sample	1247	7.20	1920	23.44	49.4	7.61	150	–	5.8

% Recovered: 74%
Depth of Pump (feet): 39
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1247
Sample ID: POGW-23
COC #: 1227
Field Crew: SEL / ZSK
Samplers Signature: [signature]

Comments: 1012 1315 1408

Poway Landfill
Groundwater Sample Collection Log
POGW-24A

Well Data:

Sample Type: Groundwater
Well Depth (ft): 19.6
Casing Elevation (ft): NA

Weather: Sunny 55°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 13

Well Purging:

Equipment: Disposable Bailer
Depth to Water Surface (ft): 18.51
Feet of Water in Well: 1.09
Borehole Volume (gal) 1.09 x 0.8 = 0.9
Purge Volume (gal): = Purge dry (slow recovery)

Immiscible layer Y/N?: N
Max. depth during purging (ft): 19.6 → DRY
80 percent recovery: 18.73
Depth at time of sampling (ft): 19.13
Total Volume Purged (gal.): 0.6

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	0958	6.95	2169	22.03	0.6	4.53	216	–	∅
	1005	6.99	2047	23.33	398.7	4.71	211	↓	0.95
	1008	6.90	2059	23.79	685.7	4.44	213	0.06	0.6
	1008	PURGED	TO BOTTOM		–	–	–	–	0.6
Sample	1421	–	–	–	–	–	–	–	–

% Recovered: 43%
Depth of Pump (feet): NA
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl,CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO,4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1421 VOC'S + COD ONLY
Sample ID: POGW-24A
COC #: 1227
Field Crew: SEL/RSK
Samplers Signature:

Comments: HAND BAILED.

∅ RECOVERY ON DAY 2 - NO GENCHEM OR METALS OR TDS SAMPLES COLLECTED.

Poway Landfill
Groundwater Sample Collection Log
POGW-24B

Well Data:

Sample Type: Groundwater
Well Depth (ft): 45.1
Casing Elevation (ft): NA

Weather: SUNNY 65°F
Diameter of Well (in.): 2
Diameter of Borehole (in.): 8
Filter Pack (ft): 13

Well Purging:

Equipment: 2" Dedicated Pump
Depth to Water Surface (ft): 12.90
Feet of Water in Well: 32.2
A) Casing volume above filter pack: 13.2 X 0.17 = 2.2
B) Filter Pack Volume (gal): 13 X 0.8 = 10.4
Borehole volume (gal): A + B = 12.6
Minimum Purge Volume (gal): Borehole Volume X 1.5 = 18.9

Immiscible layer Y/N?: N
Max. depth during purging (ft): 31.20
80 percent recovery: 21.36
Depth at time of sampling (ft): 21.36
Total Volume Purged (gal.): 15.7

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1143	6.44	3345	22.73	99.7	7.24	13	–	0
	1150	6.45	3302	23.13	11.9	8.53	-42		6.3
	1204	6.43	3244	23.06	3.8	5.98	-36		12.6
	1217	6.41	3163	23.48	2.4	2.76	-28		18.9
	1217	STOPPED	PURGING	-	-	-	-	–	18.9
Sample	1224	6.45	3160	22.29	9.8	3.51	-19	–	18.9

% Recovered: 80%
Depth of Pump (feet): 43.5
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1224
Sample ID: POGW-24B
COC #: 1227
Field Crew: SEL | RJK
Samplers Signature:

Comments: 12:1 [illegible] AT START OF PURGE.

Poway Landfill
Groundwater Sample Collection Log
POPW-1

Well Data:

Sample Type: Groundwater
Well Depth (ft): 116
Casing Elevation (ft): 724.07

Weather: Clear 70°F
Diameter of Well (in.): 4
Diameter of Borehole (in.): 8
Filter Pack (ft): 31

Well Purging:

Equipment: Grundfos Pump
Depth to Water Surface (ft): 80.27
Feet of Water in Well: 35.73
Borehole Volume (gal): X 1.1 = 39.3~~07~~ 39.0
Minimum Purge Volume (gal): Borehole Volume X 1.5 = ~~58.95~~

Immiscible layer Y/N?: N
Max. depth during purging (ft): 113.80
80 percent recovery: 87.42
Depth at time of sampling (ft): 90.60
Total Volume Purged (gal.): 590

	Time	pH	EC (µS/cm)	Temp. (C)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Pump Rate (gpm)	Vol. Purged (gal)
Purge	1124	4.12	3564	22.06	27.3	18.04	112	—	0
	1134	4.95	3521	23.56	16.6	17.66	104	↓	20
	1146	5.19	3523	24.36	12.3	0.32	104		37.7
restart purge	1154	4.67	3547	24.57	21.6	14.24	86		37.7
	1249	4.85	3613	24.45	3.9	16.81	107	0.7	590
Sample	1452	5.73	3601	23.28	81.7	3.69	82	—	—

% Recovered: 69%
Depth of Pump (feet):
Purge Water Disposal: Collected and Sprayed

Sample Collection:

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO3, HCO3 Dissolved Metals (Ca, Mg, K, Na)
1 x 250ml	Glass	N	H_2SO_4, 4°C	COD
1 x 1 L	Poly	N	4°C	TDS

Date/Time: 1/17/07 1452
Sample ID: POPW-1
COC #: 1227
Field Crew: RJK/SEL
Samplers Signature:

Comments: 2.75Hz ↓ 2.57Hz [redacted]
Unexpectedly slow recharge.
sampled w/Bailer

1263.2
1283.2
303.2
322.2

Poway Landfill
Groundwater Sample Collection Log
QCFB

Well Data:

Sample Type: Groundwater
QA/QC

Sample Collection:

Location: Near POPW-1

Weather: Clear 50°F

Volume	Container	Filtered	Pres.	Parameters
2 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260

Date/Time: 1/17/07 1510
Sample ID: QCFB
COC #: 1227
Field Crew: RJK / SEL
Samplers Signature:

Poway Landfill
Groundwater Sample Collection Log
QCFB

Well Data:

Sample Type: Groundwater
QA/QC

Sample Collection:

Location: Near POGW-20

Weather: Clear 65°F

Volume	Container	Filtered	Pres.	Parameters
2 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260

Date/Time: 1/18/07 1212
Sample ID: QCFB
COC #: 1228
Field Crew: RJK/SEL
Samplers Signature:

Poway Landfill
Groundwater Sample Collection Log
QCEB

Well Data:

Sample Type: Groundwater
QA/QC

Sample Collection:

Location: Near POPW-1

Weather: Clear 50°F

Volume	Container	Filtered	Pres.	Parameters
3 x 40 ml	VOA	N	HCl, 4°C	VOCs by 8260
1 x 1 L	Poly	N	4°C	General Chemistry: NO_3 (as N), SO_4, Cl, CO_3, HCO_3 Dissolved Metals (Ca, Mg, K, Na)
1 x 1 L	Poly	N	4°C	TDS
1 x 250ml	Glass	N	H_2SO,4°C	COD

Date/Time: 1/17/07 1505
Sample ID: QCEB
COC #: 1227
Field Crew: RJK/SEL
Samplers Signature:

Document Number: 1227

Analysis Request and Chain of Custody Record

Page 1 of 2

Project Name: SD Bay Alum Channels	Project Number: [illegible]
Samplers Names: Scott Cole / Gary Klinger	Project Contact: D. Simon
Laboratory Name: Calscience Env Labs	Lab Contact: S. Nowak
Lab Address: 7440 Lincoln Way, Garden Grove, CA [redacted]	Lab Phone: (714) 895-5494
	Carrier/Waybill No.: Lab Courier

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals (Cadmium)	SVOCs by 8270	TDS	TSS							Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative												
				Number of Containers												
PSCW-6	1/11/07	1433	H2O	3	1		1	1								
PSCW-9		1312		3	1		1	1								
PSCW-10		1323		3	1		1	1								
PSRW-1		1452		3	1		1	1								
PSCW-11		1313		3	1		1	1								
PSCW-X15		1333		3	1		1	1								
PSCW-35		1451		3	1		1	1								
PSCW-23		1247		3	1		1	1								
PSCW-24A		1421		2				1								
PSCW-24B		1224		3	1		1	1								
[illegible]		1305		3	1		1	1								
QC13	1/11/07	1510	H2O	2												

Special Instructions: Filter & preserve metals upon receipt. Screen - Mes (As & Se), Cr, Cd, Hgs. Dissolved metals (Ca, Mg, K, Na) EDF

Turn-around Time: ☐ Normal ☐ Rush: _____

1. Relinquished by (Signature/Affiliation)	Date 1/11/07 Time 1331	1. Received by (Signature/Affiliation) CEL	Date 1/11/07 Time 1331
2. Relinquished by (Signature/Affiliation)	Date Time	2. Received by (Signature/Affiliation)	Date Time
3. Relinquished by (Signature/Affiliation)	Date Time	3. Received by (Signature/Affiliation)	Date Time

Analysis Request and Chain of Custody Record

Continued from Document Number: 1227

Project Name: S.D. Point Loma Landfill

Project Number: Point Loma

Page 2 of 2

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals	SVOCs by 8270								Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative											
				1/2 1/2											
				Number of Containers											
QCTB	1/17/07	—	H2O	2											

Document Number: 1228

Analysis Request and Chain of Custody Record

Project Name: SD County Inactive Landfills	Project Number: Poway Landfill
Samplers Names: Ron Kluger / Scott Lowe	Project Contact: D. Skippen
Laboratory Name: CalScience Env. Labs	Lab Contact: S. Nowak
Lab Address: 7440 Lincoln Way, Garden Grove, CA	Lab Phone: (714) 895-5494
	Carrier/Waybill No.

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals + Gen Chem	SVOCs by 8270	TDS	COD						Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative											
				VOA HCl	Poly Nitric		Poly Nitric	Glass Tedlar							
				Number of Containers											
POGW-13	1/18/07	0918	H_2O	3	1		1	1							
POGW-14	"	1011	"	3	1		1	1							
POGW-16		1026		3	1		1	1							
POGW-17B		0815		3	1		1	1							
POGW-19		1142		3	1		1	1							
POGW-20		1230		3	1		1	1							
POGW-21		1056		3	1		1	1							
POGW-22		1340		3	1		1	1							
QCFB		1219		2											
QCTB	1/18/07	—	H_2O	2											

Special Instructions: Filter + Preserve Metals upon receipt
Gen Chem: NO_3(as N), SO_4, Cl, CO_3, HCO_3
Metals: Ca, Mg, K, Na

EDF

Turn-around Time: ☑ Normal ☐ Rush: _____

1. Relinquished by (Signature/Affiliation) BBCEnv	Date 1/19/07 Time 1515	1. Received by (Signature/Affiliation)	Date 1/19/07 Time 1515
2. Relinquished by (Signature/Affiliation)	Date Time	2. Received by (Signature/Affiliation)	Date Time
3. Relinquished by (Signature/Affiliation)	Date Time	3. Received by (Signature/Affiliation)	Date Time

GEOSYNTEC CONSULTANTS 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Soil Vapor Collection Logs

Geosyntec consultants

CALIBRATION LOG FOR AIR SAMPLING

Date	Time	Unit Description			Calibration Gas		~~Reading~~		Comments	
		Brand	Type	Serial #	Type	lot#	CO_2 ~~PPM~~ %	CH_4 ~~PPM~~ %	CO_2 %	CH_4 %
1/22/06	7:15	LANDTEC	RS087	GEM 2000	ENVIRONMENTAL	91042	15	15	15	15.5
↓	7:25	LANDTEC	GEM 2000	RS086	" "	" "	15	15	14.5	16.3
	8:15	LANDTEC	GEM 2000			" "	15	15		
	8:10	LANDTEC	GEM 2000	RS037	ENVIRONMENTAL	1022527	15	15	14.5	15.5
1/23/07	8:20	LANDTEC	GEM 2000	RS086	"	1022555 ~~41042~~	15	15	13.7	15.1

-- Not Applicable

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: SUNNY
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # PVP-1
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature Atm. Pressure (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	26 in H_2O	Time	9:55

Subsurface type	☐ Asphalt	☒ Concrete	☐ Grass	☐ Other
Surface thickness:	in/cm	☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
~1	0.2	>100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
958	959	1	—	—	—	>100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather:
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # PVP-2B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature Atm. Pressure (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	-17 in H_2O	Time	10:11

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
4	0.2	>100
	0.5	
	1	

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1012	1016	4	–	~200	–	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # PVP-3B
PID Model # —
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial # —
Helium detector (model and serial number) —
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	0	Time	1043

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
15	0.2	>100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1045	1100	15	—	~0.2	—	>100	—	—	—	—	—	—	

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # PVP-4D
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature _____ Atm. Pressure _____ (in Hg)

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	28 in H_2O	Time	1030

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
3	0.2	7100
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: ~6 (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1031	1034	3	–	~0.2	–	7100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-2B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature Atm. Pressure (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	3	Time	1205

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
1.5	0.2	>100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1206	1207	~1.5	–	0.2	—	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-3B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature Atm. Pressure (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	0	Time	1214

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_20)
5	0.2	>100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1215	1220	5	—	0.2	—	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-5B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature _____ Atm. Pressure _____ (in Hg)

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	14	Time	1230

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
<0.5	0.2	>100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1232	1232	<1/2	—	0.2	—	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments : Visible water in probe tubing prior to pumping

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-6B
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # —
Helium detector (model and serial number) —
Air Temperature _____ Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	17	Time	1256

Subsurface type	☐ Asphalt	☐ Concrete	☐ Grass	☐ Other
Surface thickness: _____ in/cm		☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
1	0.2	7100
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1257	1258	1	—	0.2	—	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Water visible in probe tube prior to pumping.

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: Sunny
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-7B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	0	Time	114

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
1	0.2	>100
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
121	122	1	–	0.2	–	>100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Visible water in probe tubing prior to pumping.
Pump & remove water from line then restart test

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/8/2007 Weather: SUNNY
Field Personnel: C. Gale/R. Gray
Tracer Gas: He

Probe # VW-9
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial #
Helium detector (model and serial number)
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	12	Time	1150

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
5 sec	0.2	> 100
	0.5	
	1	

Subsurface type ☐ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%)			VOCs by PID (ppmv)
										min	max	Sample	
1055	1155	< 1	—	~0.2	—	> 100							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

SOIL GAS PROBE MEASUREMENTS

PVP-1A

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Project Name:	Poway Landfill	Probe #	PVP-1A
Project Number:	SC0233	PID Model #	—
Phase Number:	09-01	PID Serial #	—
Date:	1/22/07 Weather: 60 sunny	Landtech GEM 2000 Landfill Gas Meter Serial #	R-5087
Field Personnel:	S. Andnes, P. Skippon	Helium detector (model and serial number)	Dielectric R-6130
Tracer Gas:	He	Air Temperature 60	Atm. Pressure — (in Hg)

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1026

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		—

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balance
1026						>100	← False Reading - Tubing Crimped						—	
													—	
1033	1039	6	3	.167	1	10	0	.3	20.3	30	70	<130	—	79.4
Sample 1042	1049	7	1	.167	1	10								

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1042	PVP-1A	PVP-1A	2116	-30.0	-1.5

Comments: Well head vacuum exceeding 100 in H_2O. Project specs call for no sampling @ 100 in H_2O and above. Was unable to pull a sample ~~from~~ for parameters.

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/07 Weather: Sunny 70
Field Personnel: D. Skippone, S. Anderson
Tracer Gas: He

Probe # PVP-2A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # ~~R-5087~~
Helium detector (model and serial number) Dielectric ~~R-6130~~
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0.25	Time	1156

Subsurface type	☐ Asphalt	☒ Concrete	☐ Grass	☐ Other
Surface thickness: 6 in/cm			☐ unknown	
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		—

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
Sum 1217													
Sum ~~1218~~	1222	5	3	.162	1	1.4	0	1.5	19.6	30	60	<190	—
1224	1230	6	6	1.67	1	1.6							—
1232	1237	5	3	1.67	1	1.6	0	.4	20.9	30	70	<190	—

Balance Z
78.9
78.7

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1224	PVP-2A	PVP-2A	2767	-30.0	-1.0

Comments

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/2007 Weather: Sunny
Field Personnel: R. Gray / C. Gale
Tracer Gas: He

Probe # PVP-3A
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial # GM055542
Helium detector (model and serial number) Dielectric MGD-2002
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	107

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Bag (N)
	1009	1015	6	~1	0.167	1	1.5	—	—	—	30	60	15.4	—	
	1021	1027	6	~1	0.167	2	4.6		—	—	30	58	3.4	—	
	1038	1044	6	~1	0.167	3	4.9	0	0.4	20.1	32	54.5	<1	—	29.5
SAMPLE	1046	1105	19	~2		5	6.0								
	1105	1111	6	~1	0.167	6	5.5	0	0.3	20.0	31	55	<1	—	29.7

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1105	PVP-3A	PVP-3A	34156	-29	-1.5
1105	PVP-3A	PVP-3C	34117	-29	-1.5

Comments Cut tubing in probe caused leak, cut out damaged section & repurge
2nd Purge - Recut below kink in tube & Purge for 3rd time

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/2009 Weather: Sunny
Field Personnel: R. Gray / C. Gale
Tracer Gas: He

Probe # PVP-4A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # GM05542
Helium detector (model and serial number) Dielectric MGD-2002
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1143

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
~~☐ Sub-slab <0.1 L~~
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balgas
	1145	1151	~6	~1	0.167	1	0.09	0	0.0	20.5	30	62	<1	—	79.5
SAMPLE –	1154	1200	~6	1	0.167	2	0.125								
	1201	1205	4	~0.8	0.167	2.8	0.09	0	0.8	19.6	32	58	<1	–	79.6

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1200	PVP-4A	PVP-4A	9318	-28.5	-3.5

Comments

SOIL GAS PROBE MEASUREMENTS

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10875 Ranch Bernardo Road, Suite 200
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858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/07 Weather: Sunny
Field Personnel: D. Gray / G. Gale
Tracer Gas: He

Probe # PVP-5 Lamp: 10.6 / 11.7 eV
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # iM05542
Helium detector (model and serial number) Dielectric
Air Temperature _____ Atm. Pressure _____ (in Hg)

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0.015	Time	902

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
904	~~905~~ 910	5-6	1	0.167	1	0.115-0.25	0	0.2	20.7	30		<1	
SAMPLE 9:18	9:25	~7	1	~0.167	2	0.15				30			

BAL 78.1

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
925	PVP-5	PVP-5	3399	-29.0	-3.0

Comments Well head vacuum erratic, jumping btwn 0.115 & 0.25 during purging

SOIL GAS PROBE MEASUREMENTS

PVP-1

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/06 Weather: Sunny 56
Field Personnel: S. Andrews, D. Skipper
Tracer Gas: He

Probe # PVP-6
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # R5087
Helium detector (model and serial number) Dielectric R-6150
Air Temperature 56 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	.02	Time	0859

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balance
0903	0909	6	3	.167	1	.22	0	0.4	20.8	30	80	<1	—	78.8
sample 0917	0922	5	1	.167	1	.22				30	60		—	
0927	0933	6	3	.167	1	.17	0	0.4	20.7	30	60	<1	—	78.9

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
0922	PVP-6	PVP-5	34176	-29.5	-2

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/2007 Weather: Sunny
Field Personnel: R. Gray / C. Gale
Tracer Gas: He

Probe # VW-1A
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial # 60105582
Helium detector (model and serial number) Dielectric
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	0	Time	1533

Subsurface type	☐ Asphalt	☒ Concrete	☐ Grass	☐ Other
Surface thickness: 6 ☒/cm		☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Bal
1535	1544	9	~1		1	0.025	0	2.0	18.6	34	70	<1	-	79.4
1545	1613	28	·1		2	0.025				31	68	-		
1613	1628	15	~1		3	0.025	0	4.2	17.1	30	55	<1	—	78.8

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1613	VW-1A	VW-1A	34620	-28.5	-3.5

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/2007 Weather: Sunny
Field Personnel: R. Gray / C. Gale
Tracer Gas: He

Probe # VW-1B
PID Model #
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial # GM05542
Helium detector (model and serial number) Dielectric MGD-2002
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1355

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume	
☐ Sub-slab <0.1 L	
Soil gas probe	(L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	
~~1357~~				~~0.167~~		~~10.0~~								Bal
1405	1420	15	~1	~~0.167~~	1	19				30	62	20.8		
1425	1435	10	~1		2	45				30	58	2.5		
1440	1455	15	~1.5		3.5	60	0	5.3	15.7	30	68	<1		78.9
SAMPLE- 1458	1510	12	1	~0.08	4.5	68								
1511	1521	10	~1	0.10	5.5	52	0	4.3	16.2			<1		79.4

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1510	~~TVP~~ VW-1B	VW-1B ~~+3588~~	13388	-28.5	-3.5

Comments Cut tube below crimp after 1st Purge & repurge
Change Tedlar & repurge after 2nd purge

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/07 Weather: Sunny 65
Field Personnel: S. Anchors, Dave Skippon
Tracer Gas: He

Probe # VW-21
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # R-5087
Helium detector (model and serial number) Dielectric R-6130
Air Temperature 70 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	–	Time	–	Initial Pressure/Vacuum (prior to pumping)	0	Time	1355

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6.0 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
–	0.2	–
–	0.5	–
–	1	–
–		–

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balance
	1409	1410	10	3	6.167	1	18.0	0	.1	20.9	30	60	6.19	–	79
sample	1415	1424	9	1	6.167	1	15.0				30	60		–	
	1427	1436	9	3	6.167	1	18.0	0	0	20.6	30	60	6.17	–	79.4

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1415	VW-2A	~~35635~~ VW-21	35635	-30.0	-3.0

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/2007 Weather: Sunny
Field Personnel: E. Powers / C. Gale
Tracer Gas: He

Probe # VW-3A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # GR 05542
Helium detector (model and serial number) Dielectric
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	900

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: ~6 ~~0~~ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ ~~Sub-slab <0.1 L~~
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	~~0.5~~	
	1	

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Bal
	902	908	6	~1	0.167	1	0.02	0.3	4.1	16.9	30	62	<1		78.7
SAMPLE	914	920	6	~1	0.167	1	0.03				32	58			
	920	926	6	~1	0.167	1	0.03	0.1	4.8	17.3	31	67	<1		78.0

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
920	VW-3A	VW-3A	35678	-28.5	-1.0

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/22/06 Weather: Sunny 60
Field Personnel: S. Anchuras, D. Skippon
Tracer Gas: He

Probe # VW-4A
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # R-5087
Helium detector (model and serial number) Dielectric R-6130
Air Temperature 60 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	⌒	Time	⌒	Initial Pressure/Vacuum (prior to pumping)	0	Time	1554

Subsurface type	☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness:	6 (in) cm ☐ unknown
(ie. asphalt of concrete surface)	

1 Casing Volume	
☐ Sub-slab <0.1 L	
Soil gas probe	0.19 (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
–	0.2	–
–	0.5	–
–	1	–
–		–

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
	1555	1602	7	3	.167	1	1.8	0	5.6	15.3	30	70	<1.0%	–
Sample	1605	1612	7	1	.167	1	2.2							–
	1613	1618	5	3	.167	<1	1.6	0	5.4	15.2	30	70	<1.0%	–

Balance
79.1
79.4

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1605	VW-4A	VW-4A	30824	-29.5	-4.0

Comments

SOIL GAS PROBE MEASUREMENTS

VW-4B

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Project Name:	Poway Landfill	Probe #	VW-4B
Project Number:	SC0233	PID Model #	–
Phase Number:	09-01	PID Serial #	–
Date:	Weather: Sunny 60	Landtech GEM 2000 Landfill Gas Meter Serial #	R-5087
Field Personnel:	S. Andrews, D. Skippari	Helium detector (model and serial number)	Dielectric - R-6130
Tracer Gas:	He	Air Temperature 60	Atm. Pressure – (in Hg)

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	–	Time	–	Initial Pressure/Vacuum (prior to pumping)	0	Time	1508

Subsurface type	☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness:	6" in/cm ☐ unknown
(ie. asphalt of concrete surface)	

1 Casing Volume	
☐ Sub-slab <0.1 L	
Soil gas probe	.22 (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
–	0.2	–
–	0.5	–
–	1	–
–		–

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balance
	1509	1515	6	3	.167	1	10.0	0	0	21.2	30	70	<1.02	–	78.8
Sample	1520	1526	6	1	.167	1	8.0				30	70		–	
	1527	1534	7	3	.167	1	8.0	0	8.1	13.8	30	70	<1.02	–	78.1

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1520	VW-4B	VW-4B	12359	-30.0	-4.0

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/07 Weather: SUNNY - 65°F
Field Personnel: S. Andres D. Stupp
Tracer Gas: He

Probe # VW-5A
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # 125087
Helium detector (model and serial number) Dielectric - R6130
Air Temperature 65 Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0.0	Time	8:57

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		—

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
	9:00	9:06	6	~1	.167	1	2.1	0	1.4	19.6	50	30	<1	—
Sample —	9:10	9:17	7	1	.167	1	2.5	—	—	—	60	30	—	—
	9:22	9:28	~6	~1	.167	1	3.2	0	1.9	18.9	70	30	<1	—

Balance
79
~~78.5~~
79.2

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
	VW 5A	VW 5A	1483	30	-4.0

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/07 Weather: Sunny 65°
Field Personnel: D. Skippon, S. Andres
Tracer Gas: He

Probe # VW-6A
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # R-5087
Helium detector (model and serial number) Dielectric R-6130
Air Temperature 65 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	–	Time	-	Initial Pressure/Vacuum (prior to pumping)	0	Time	1006

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe 0.19 (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
–	0.2	–
–	0.5	–
–	1	–
–		–

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	
~~1005~~			~~3~~	~~.167~~	~~1~~									
														Balance
1010	1027	17	3	.167	1	50	0	1.3	~~20.4~~ 19.6	30	60	<1.0%	–	79.3
Sample→ 1032	1048	16	1	.167	1	90	—			40	80		–	
1044	1100	16	3	.167	1	55	0	2.0	18.5	35	70	<1.0%	–	79.5

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
~~1000~~ 1032	VW-6A	VW-6A	1467	-30.0	-3.0

Comments

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/07 Weather: Sunny + 70
Field Personnel: S. Andrews + D. Skippon
Tracer Gas: He

Probe # VW-7A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # R-5087
Helium detector (model and serial number) Dielectric R-6130
Air Temperature 70 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1139

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 ☒ /cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		—

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Balance
	1140	1145	5	3	.167	1	9.0	0	3.9	16.4	30	60	21.0%	—	79.7
Sample→	1147	1155	8	1	.167	1	11.0	—	—	—	30	60	—	—	
	1157	1203	6	3	.167	1	9.0	0	5.7	14.8	30	65	21.0%	—	79.5

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1147	VW-7A	VW-7A	34086	-30.0	-3.0

Comments

SOIL GAS PROBE MEASUREMENTS

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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/2007 Weather: Sunny
Field Personnel: E. Powers / C. Gale
Tracer Gas: He

Probe # VW-8A
PID Model # —
PID Serial #
Landtech GEM 2000 Landfill Gas Meter Serial # GM4882
Helium detector (model and serial number) Dielectric
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	/	Time	/	Initial Pressure/Vacuum (prior to pumping)		Time	

Subsurface type ☐ Asphalt ☑ Concrete ☐ Grass ☐ Other
Surface thickness: ~6 (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	~~0.5~~	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ Dal.
1111	1117	6	1	0.167	1	0.045	0.0	3.5	17.7	35	62	<1	78.7
1121	1130	9	2		3	0.140				38	77		
1130						0.075	0.0	3.2	18.0	37	58	<1	78.8

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1130	VW-8A	VW-8A	20781	-29	-2.5
1130	VW-8A	VW-8C	12372	-28.5	-3.5

Comments

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/2007 Weather: Sunny
Field Personnel: E. Powers / C. Gale
Tracer Gas: He

Probe # VW-8B
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # [illegible]
Helium detector (model and serial number) Dielectric
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	/	Time	/	Initial Pressure/Vacuum (prior to pumping)	0	Time	1010

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: ~6 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)	Bal
	1013	1019	6	1	0.167	1	0.110	0.0	3.9	17.8	40	88	<1		78.3
Sample	1022	1030	8	1		2	0.115	~~0.0~~			32	54			
	1030	1038	8	1				0.0	3.9	17.8	81	68	<1		78.3

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1030	VW-8B	VW-8B	34110	-28.5	-2.5

Comments

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name:	Poway Landfill	Probe #	VW-10
Project Number:	SC0233	PID Model #	—
Phase Number:	09-01	PID Serial #	—
Date:	1/23/2007 Weather: Sunny	Landtech GEM 2000 Landfill Gas Meter Serial #	GM 05542
Field Personnel:	E. Powers / C. Gale	Helium detector (model and serial number)	Dielectric
Tracer Gas:	He	Air Temperature ____ Atm. Pressure ____ (in Hg)	

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	/	Time	/	Initial Pressure/Vacuum (prior to pumping)	0	Time	1415

Subsurface type	☐ Asphalt	☑ Concrete	☐ Grass	☐ Other
Surface thickness:	6 in/cm	☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ BAL
1415	1423	8	1		1	0.01	0.0	2.5	18.8	34	92	<1	78.7
1423	1431	6	1		2	0.01	0	2.4	18.9	32	72	<1	78.7
1431	1437	6	1		3	0.01							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1431	VW-10	VW-10	9441	-28.5	-2.5

Comments

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name:	Poway Landfill	Probe #	VW - 11
Project Number:	SC0233	PID Model #	—
Phase Number:	09-01	PID Serial #	—
Date:	1/23/07 Weather: Sunny	Landtech GEM 2000 Landfill Gas Meter Serial #	GM 05542
Field Personnel:	E. Powers / G. Gale	Helium detector (model and serial number)	Dielectric
Tracer Gas:	He	Air Temperature ____ Atm. Pressure ____ (in Hg)	

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	/	Time	/	Initial Pressure/Vacuum (prior to pumping)	0	Time	15:20

Subsurface type	☐ Asphalt	☒ Concrete	☐ Grass	☐ Other
Surface thickness:	0 in/cm	☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ BAC
1528	1535	9	1		1	14	0	2.4	18.2	31	64	<1	79.3
1536	1546	10	1		2					32	74		
1546	1554	8	1		3	14	0	2.8	17.8	37	58	<1	79.4

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1546	VW-11	VW-11	34099	-28.5	-2.5

Comments

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/2007 Weather: Sunny
Field Personnel: E. Powers / C. Gale
Tracer Gas: He

Probe # VW-12
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # GM2000
Helium detector (model and serial number) Dielectric
Air Temperature _____ Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	6	Time	1320

Subsurface type ☐ Asphalt ☑ Concrete ☐ Grass ☐ Other
Surface thickness: 6 0 in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_20)
	0.2	
	0.5	
	1	

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ BAL
	1321	1330	9	1		1	0.035	0	5.9%	15.4	31	58	21	78.6
SAMPLE	1330	1336	6	1		2	0.045				32	83		
	1337	1345	8	1		3	0.040	0	5.9	15.6			<1	78.5

	Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1336	~~1335~~	VW-12	VW-12	35627	-28.5	-3.0

Comments

SOIL GAS PROBE MEASUREMENTS

VW-13

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/06 Weather: Sunny 70-
Field Personnel: S. Andrews, D. Skippere
Tracer Gas: He

Probe # VW-13
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # R-5087
Helium detector (model and serial number) Dielectric R-6150
Air Temperature 70 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1325

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe 0.19 (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	—
—	0.5	—
—	1	—
—		—

	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
	1326	1332	6	3	.167	1	.09	0	1.6	18.3	30	60	<1.0%	—
Sample-	1337	1344	7	1	.167	1	.09	—	—	—	30	60	—	—
	1345	1351	6	3	.167	1	.09	0	.8	19.5	30	60	<1.0%	—

Bakmec
80.1
79.7

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1337	VW-13	VW-13	9337	-29.0	-30

Comments

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
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Project Name: Poway Landfill
Project Number: SC0233
Phase Number: 09-01
Date: 1/23/06 Weather: Sunny 70
Field Personnel:
Tracer Gas: He

Probe # VW-14
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # R.5087
Helium detector (model and serial number) Dielectric R.6130
Air Temperature 70 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	~	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1420

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe 0.19 (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
~	0.2	—
—	0.5	~
—	1	—
—		—

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
5 min ~~1423~~	1429	6.0	3	.167	1	1.2	0	2.3	17.8	30	65	<1.0%	—
Sample 1431	1438	7.0	1	.167	1	1.2	—	—	—	30	60	—	—
1438	1444	6.0	3	.167	1	1.2	0	2.6	17.7	30	40	—	—

Balance
79.9
79.7

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1431	VW-14	VW-14	~~34062~~ 34002	-29.0	-3.5

Comments

APPENDIX C

Certificates of Analysis

Groundwater Certificates of Analysis

Calscience Environmental Laboratories, Inc.

January 26, 2007

Dave Skippon
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-01-0998**
Client Reference: SD Inactive Landfill / Poway

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/18/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience
Environmental
Laboratories, Inc.

CASE NARRATIVE

Calscience Work Order No.: 07-01-0998

Provided below is a narrative of our analytical effort, including any unique features or anomalies that were encountered as part of the analysis of the water samples.

Sample Condition on Receipt

Thirteen water samples were received as part of this Work Order on January 18, 2007. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.4°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. The following tests were performed:

Volatile Organics by EPA 8260B
Metals by EPA 6010B
Total Dissolved Solids by EPA 160.1
Nitrate by EPA 353.3/354.1
Sulfate by EPA 375.4
Chloride by SM 4500-CL C
Chemical Oxygen Demand by EPA 410.4
Bicarbonate by SM 2320B
Carbonate by SM 2320B

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Calscience Environmental Laboratories, Inc.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-6	**07-01-0998-1**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	40.3	0.100	0.00932	1		mg/L
Magnesium	50.5	0.100	0.00328	1		mg/L
Potassium	5.55	0.500	0.0561	1		mg/L
Sodium	157	0.500	0.0192	1		mg/L

POGW-9	**07-01-0998-2**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	30.2	0.100	0.00932	1		mg/L
Magnesium	26.7	0.100	0.00328	1		mg/L
Potassium	6.86	0.500	0.0561	1		mg/L
Sodium	84.8	0.500	0.0192	1		mg/L

POGW-10	**07-01-0998-3**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	46.7	0.100	0.00932	1		mg/L
Magnesium	37.0	0.100	0.00328	1		mg/L
Potassium	15.8	0.500	0.0561	1		mg/L
Sodium	97.1	0.500	0.0192	1		mg/L

POPW-1	**07-01-0998-4**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	176	0.100	0.00932	1		mg/L
Magnesium	240	0.100	0.00328	1		mg/L
Potassium	12.9	0.500	0.0561	1		mg/L
Sodium	246	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-11	**07-01-0998-5**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	68.0	0.100	0.00932	1		mg/L
Magnesium	77.5	0.100	0.00328	1		mg/L
Potassium	4.10	0.500	0.0561	1		mg/L
Sodium	170	0.500	0.0192	1		mg/L

POGW-15	**07-01-0998-6**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	84.9	0.100	0.00932	1		mg/L
Magnesium	71.0	0.100	0.00328	1		mg/L
Potassium	1.12	0.500	0.0561	1		mg/L
Sodium	169	0.500	0.0192	1		mg/L

POGW-18B	**07-01-0998-7**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	26.5	0.100	0.00932	1		mg/L
Magnesium	26.1	0.100	0.00328	1		mg/L
Potassium	4.20	0.500	0.0561	1		mg/L
Sodium	216	0.500	0.0192	1		mg/L

POGW-23	**07-01-0998-8**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	95.2	0.100	0.00932	1		mg/L
Magnesium	73.8	0.100	0.00328	1		mg/L
Potassium	15.2	0.500	0.0561	1		mg/L
Sodium	159	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-24B	**07-01-0998-10**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	137	0.100	0.00932	1		mg/L
Magnesium	120	0.100	0.00328	1		mg/L
Potassium	7.73	0.500	0.0561	1		mg/L
Sodium	359	0.500	0.0192	1		mg/L

QCEB	**07-01-0998-11**	**01/17/07**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	0.0318	0.100	0.00932	1	J	mg/L
Magnesium	0.00376	0.100	0.00328	1	J	mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	0.294	0.500	0.0192	1	J	mg/L

Method Blank	**097-01-003-6,816**	**N/A**	**Aqueous**	**01/19/07**	**01/22/07**	**070119L06F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	ND	0.100	0.00932	1		mg/L
Magnesium	ND	0.100	0.00328	1		mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	ND	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 1 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-6	**07-01-0998-1**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 2 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-9	**07-01-0998-2**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	0.47	10	0.42	1	J
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 3 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-10	**07-01-0998-3**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 4 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POPW-1	**07-01-0998-4**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	1.2	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	1.7	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	3.4	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	1.4	1.0	0.17	1		Trichloroethene	1200	20	6.1	20	
Dichlorodifluoromethane	0.77	1.0	0.33	1	J	Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	1.0	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	0.89	1.0	0.26	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	280	20	13	20		Vinyl Chloride	2.5	0.50	0.24	1	
t-1,2-Dichloroethene	1.8	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 5 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-11	**07-01-0998-5**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	95	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 6 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-15	**07-01-0998-6**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	4.2	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	1.2	1.0	0.31	1	
Dichlorodifluoromethane	1.4	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	3.9	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	0.91	1.0	0.26	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	1.3	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	110	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 7 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-18B	**07-01-0998-7**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 8 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-23	**07-01-0998-8**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 9 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-24A	**07-01-0998-9**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	93	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/18/07
Work Order No:	07-01-0998
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-24B	**07-01-0998-10**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	1.0	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	1.4	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	1.9	1.0	0.17	1		Trichloroethene	1.0	1.0	0.31	1	
Dichlorodifluoromethane	2.5	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	5.0	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	0.67	1.0	0.26	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	0.88	1.0	0.63	1	J	Vinyl Chloride	0.37	0.50	0.24	1	J
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 11 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-01-0998-11**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	93	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/18/07
Work Order No:	07-01-0998
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCFB	**07-01-0998-12**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/18/07
Work Order No:	07-01-0998
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCTB	**07-01-0998-13**	**01/17/07**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/18/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 14 of 14

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,188**	**N/A**	**Aqueous**	**01/19/07**	**01/19/07**	**070119L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-6	**07-01-0998-1**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	857	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	3.8	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	350	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	198	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	230	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-9	**07-01-0998-2**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	520	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	2.9	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	150	10	2.1	5		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	164	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	110	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-10	**07-01-0998-3**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	672	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	4.1	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	310	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	208	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	96	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POPW-1	**07-01-0998-4**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	2510	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	5.9	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	340	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand	18	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	264	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	690	10	5.0	5		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-11	**07-01-0998-5**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1130	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	4.3	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	300	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	146	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	340	4.0	2.0	2		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-15	**07-01-0998-6**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1020	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	4.0	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	170	10	2.1	5		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	368	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	270	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-18B	**07-01-0998-7**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	850	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	3.4	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	300	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	234	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	120	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-23	**07-01-0998-8**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1110	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	3.4	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	330	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	236	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	330	4.0	2.0	2		mg/L	N/A	01/19/07	SM 4500-Cl C

POGW-24A	**07-01-0998-9**	**01/17/07**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	5.0	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-24B	**07-01-0998-10**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1840	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	0.44	0.10	0.029	1		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	340	20	4.2	10		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand	19	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	650	5.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride	560	10	5.0	5		mg/L	N/A	01/19/07	SM 4500-Cl C

QCEB	**07-01-0998-11**	**01/17/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N) (1)	0.034	0.10	0.029	1	J	mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	9.8	2.0	0.42	1		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride (1)	1.3	2.0	1.0	1	J	mg/L	N/A	01/19/07	SM 4500-Cl C

Method Blank	**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N) (1)	ND	0.10	0.029	1		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate (1)	ND	2.0	0.42	1		mg/L	N/A	01/23/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/23/07	01/23/07	EPA 410.4
Bicarbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Carbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/19/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/19/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/18/07
Work Order No: 07-01-0998
Preparation: EPA 3010A Total
Method: EPA 6010B

Project SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-0970-15	**Aqueous**	**ICP 3300**	**01/19/07**	**01/22/07**	**070119S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Calcium	4X	4X	77-113	4X	0-11	Q
Magnesium	4X	4X	56-140	4X	0-11	Q
Potassium	107	109	83-131	1	0-7	
Sodium	4X	4X	73-127	4X	0-9	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/18/07
Work Order No:	07-01-0998
Preparation:	EPA 5030B
Method:	EPA 8260B

Project SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
POGW-6	**Aqueous**	**GC/MS O**	**01/19/07**	**01/19/07**	**070119S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	88-118	1	0-7	
Carbon Tetrachloride	105	107	67-145	1	0-11	
Chlorobenzene	100	101	88-118	1	0-7	
1,2-Dichlorobenzene	100	102	86-116	1	0-8	
1,1-Dichloroethene	105	103	70-130	2	0-25	
Toluene	100	101	87-123	1	0-8	
Trichloroethene	101	102	79-127	0	0-10	
Vinyl Chloride	111	111	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	88	91	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	66	73	36-168	11	0-45	
Diisopropyl Ether (DIPE)	99	100	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	92	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	91	72-126	2	0-12	
Ethanol	95	100	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	EPA 375.4	07-01-1068-4	01/23/07	N/A	92	92	70-130	0	0-25	
Nitrate (as N)	EPA 353.3/354.1	POGW-6	01/19/07	N/A	98	98	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chloride	SM 4500-Cl C	07-01-0918-1	01/19/07	580	570	1	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	POGW-24B	01/19/07	650	650	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	POGW-24B	01/19/07	650	650	0	0-25	
Carbonate (as CaCO3)	SM 2320B	POGW-24B	01/19/07	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	POGW-24B	01/19/07	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	POGW-15	01/23/07	ND	ND	NA	0-25	
Solids, Total Dissolved	EPA 160.1	POGW-6	01/23/07	857	860	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-0998
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-6,816	**Aqueous**	**ICP 3300**	**01/19/07**	**01/22/07**	**070119L06F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Calcium	94	97	80-120	3	0-20	
Magnesium	94	96	80-120	2	0-20	
Potassium	94	100	80-120	6	0-20	
Sodium	100	100	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	N/A
Work Order No:	07-01-0998
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,188	**Aqueous**	**GC/MS O**	**01/19/07**	**01/19/07**	**070119L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	98	84-120	1	0-8	
Carbon Tetrachloride	107	107	63-147	0	0-10	
Chlorobenzene	102	101	89-119	1	0-7	
1,2-Dichlorobenzene	101	100	89-119	1	0-9	
1,1-Dichloroethene	105	103	77-125	2	0-16	
Toluene	101	99	83-125	2	0-9	
Trichloroethene	102	101	89-119	1	0-8	
Vinyl Chloride	111	110	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	87	87	82-118	0	0-13	
Tert-Butyl Alcohol (TBA)	65	64	46-154	1	0-32	
Diisopropyl Ether (DIPE)	99	98	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	89	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	89	88	76-124	1	0-10	
Ethanol	100	93	60-138	7	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-0998

Project: SD Inactive Landfill / Poway

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Sulfate	EPA 375.4	099-05-091-1,372	01/23/07	N/A	20	20	102	80-120	
Nitrate (as N)	EPA 353.3/354.1	099-04-011-441	01/19/07	N/A	0.50	0.46	93	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-01-0998

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 1227

0998

Analysis Request and Chain of Custody Record

Page 1 of 2

Project Name: S.D. County Inactive Landfills	Project Number: Poway Landfill
Samplers Names: Scott Lutz / Rory Klinger	Project Contact: D. Skidmore
Laboratory Name: Cal Science Env. Labs	Lab Contact: S. Nowak
Lab Address: 7440 Lincoln Way, Garden Grove, CA [redacted]	Lab Phone: (714) 895-5494
	Carrier/Waybill No.: Lab Courier

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by 8260 (HCl)	Metals (Gen Chem) (Poly None)	SVOCs by 8270	TDS (Poly None)	COD (Glass H2SO4)						Comments	Lab Use Only: Condition of Bottles
POGW-6	1/17/07	1433	H2O	3	1		1	1							
POGW-9		1302		3	1		1	1							
POGW-10		1323		3	1		1	1							
POPW-1		1452		3	1		1	1							
POGW-11		1313		3	1		1	1							
~~POGW-13~~ POGW-15 (S.L.)		1333		3	1		1	1							
POGW-18B		1451		3	1		1	1							
POGW-23		1247		3	1		1	1							
POGW-24A		1421		3				1							
POGW-24B		1224		3	1		1	1							
QCEB		1505		3	1		1	1							
QCFB	1/17/07	1510	H2O	2											

Special Instructions: FILTER & PRESERVE METALS UPON RECIEPT
GEN CHEM: NO3 (AS N) SO4, Cl, CO3, HCO3
DISSOLVED METALS (Ca, Mg, K, Na)

EDF

Turn-around Time: ☒ Normal ☐ Rush:

1. Relinquished by (Signiture/Affiliation)	Date 1/18/7 Time 1331	1. Received by (Signiture/Affiliation)	Date 1/18/7 Time 1331
2. Relinquished by (Signiture/Affiliation)	Date 1/18/7 Time 1625	2. Received by (Signiture/Affiliation)	Date 1/18/7 Time 1625
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

GeoSyntec Consultants 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Document Number: 1227

0998

Analysis Request and Chain of Custody Record

Page 1 of 2

Project Name: S.D. County Inactive Landfills	Project Number: Poway Landfill
Samplers Names: Scott Lutz / Rory Klinger	Project Contact: D. Skidmore
Laboratory Name: Cal Science Env. Labs	Lab Contact: S. Nowak
Lab Address: 7440 Lincoln Way, Garden Grove, CA [redacted]	Lab Phone: (714) 895-5494
	Carrier/Waybill No.: Lab Courier

White copy: to accompany samples

Yellow copy: field copy

Required Analyses: VOCs by 8260; Metals (Gen Chem); SVOCs by 8270; TDS; COD

Bottle Type and Volume/Preservative: VOA HCl; Poly None; Poly None; Glass 1L 3oz

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals (Gen Chem)	SVOCs by 8270	TDS	COD						Comments	Lab Use Only: Condition of Bottles
POGW-6	1/17/07	1433	H_2O	3	1		1	1							
POGW-9		1302		3	1		1	1							
POGW-10		1323		3	1		1	1							
POPW-1		1452		3	1		1	1							
POGW-11		1313		3	1		1	1							
POGW-13		1333		3	1		1	1							
POGW-18B		1451		3	1		1	1							
POGW-23		1247		3	1		1	1							
POGW-24A		1421		3				1							
POGW-24B		1224		3	1		1	1							
QCEB		1505		3	1		1	1							
QCFB	1/17/07	1510	H_2O	2											

Special Instructions: FILTER & PRESERVE METALS UPON RECIEPT
GEN CHEM: NO_3 (AS N) SO_4, Cl, CO_3, HCO_3
DISSOLVED METALS (Ca, Mg, K, Na)

EDF

Turn-around Time: ☒ Normal ☐ Rush:

1. Relinquished by (Signiture/Affiliation)	Date 1/18/7 Time 1331	1. Received by (Signiture/Affiliation)	Date 1/18/7 Time 1331
2. Relinquished by (Signiture/Affiliation)	Date 1/18/7 Time 1625	2. Received by (Signiture/Affiliation)	Date 1/18/7 Time 1625
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

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Analysis Request and Chain of Custody Record

0998

Page 2 of 2

Continued from Document Number: 1227

Project Name: S.D. County Inactive Landfills

Project Number: Powam Landfill

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by 8260 (Required Analyses)	Metals	SVOCs by 8270								Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative: VOA HCl											
				Number of Containers											
QCTB	1/17/07	—	Ibo	2											

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 01 - 0998

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec DATE: 1/18/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ____ Ambient temperature.

3.4 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience Environmental Laboratories, Inc.

January 29, 2007

Dave Skippon
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-01-1067**
Client Reference: SD Inactive Landfill / Poway

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/19/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience
Environmental
Laboratories, Inc.

CASE NARRATIVE

Calscience Work Order No.: 07-01-1067

Provided below is a narrative of our analytical effort, including any unique features or anomalies that were encountered as part of the analysis of the water samples.

Sample Condition on Receipt

Ten water samples were received as part of this Work Order on January 19, 2007. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.7°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. The following tests were performed:

Volatile Organics by EPA 8260B
Metals by EPA 6010B
Total Dissolved Solids by EPA 160.1
Nitrate by EPA 353.3/354.1
Sulfate by EPA 375.4
Chloride by SM 4500-CL C
Chemical Oxygen Demand by EPA 410.4
Bicarbonate by SM 2320B
Carbonate by SM 2320B

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

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Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-13	**07-01-1067-1**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	45.5	0.100	0.00932	1		mg/L
Magnesium	44.8	0.100	0.00328	1		mg/L
Potassium	4.53	0.500	0.0561	1		mg/L
Sodium	218	0.500	0.0192	1		mg/L

POGW-14	**07-01-1067-2**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	37.1	0.100	0.00932	1		mg/L
Magnesium	37.6	0.100	0.00328	1		mg/L
Potassium	5.50	0.500	0.0561	1		mg/L
Sodium	80.5	0.500	0.0192	1		mg/L

POGW-16	**07-01-1067-3**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	50.2	0.100	0.00932	1		mg/L
Magnesium	76.6	0.100	0.00328	1		mg/L
Potassium	7.86	0.500	0.0561	1		mg/L
Sodium	88.8	0.500	0.0192	1		mg/L

POGW-17B	**07-01-1067-4**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	83.5	0.100	0.00932	1		mg/L
Magnesium	87.8	0.100	0.00328	1		mg/L
Potassium	2.00	0.500	0.0561	1		mg/L
Sodium	210	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-19	**07-01-1067-5**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	87.0	0.100	0.00932	1		mg/L
Magnesium	118	0.100	0.00328	1		mg/L
Potassium	22.9	0.500	0.0561	1		mg/L
Sodium	176	0.500	0.0192	1		mg/L

POGW-20	**07-01-1067-6**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	18.2	0.100	0.00932	1		mg/L
Magnesium	26.4	0.100	0.00328	1		mg/L
Potassium	1.23	0.500	0.0561	1		mg/L
Sodium	222	0.500	0.0192	1		mg/L

POGW-21	**07-01-1067-7**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	92.6	0.100	0.00932	1		mg/L
Magnesium	88.4	0.100	0.00328	1		mg/L
Potassium	1.54	0.500	0.0561	1		mg/L
Sodium	237	0.500	0.0192	1		mg/L

POGW-22	**07-01-1067-8**	**01/18/07**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	30.4	0.100	0.00932	1		mg/L
Magnesium	18.3	0.100	0.00328	1		mg/L
Potassium	5.87	0.500	0.0561	1		mg/L
Sodium	109	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-6,820**	**N/A**	**Aqueous**	**01/22/07**	**01/23/07**	**070122L06F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	ND	0.100	0.00932	1		mg/L
Magnesium	ND	0.100	0.00328	1		mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	ND	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 1 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-13	**07-01-1067-1**	**01/18/07**	**Aqueous**	**01/23/07**	**01/23/07**	**070123L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	1.6	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 2 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-14	**07-01-1067-2**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	30	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	37	1.0	0.63	1		Vinyl Chloride	3.2	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 3 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-16	**07-01-1067-3**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	0.39	1.0	0.16	1	J	Naphthalene	0.48	10	0.42	1	J
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	1.1	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	2.7	1.0	0.17	1		Trichloroethene	4.6	1.0	0.31	1	
Dichlorodifluoromethane	0.68	1.0	0.33	1	J	Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	13	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	91	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 4 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-17B	**07-01-1067-4**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	0.34	1.0	0.17	1	J	Trichloroethene	0.48	1.0	0.31	1	J
Dichlorodifluoromethane	1.1	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	91	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 5 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-19	**07-01-1067-5**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	2.0	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	0.97	1.0	0.17	1	J	Trichloroethene	15	1.0	0.31	1	
Dichlorodifluoromethane	4.2	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	35	1.0	0.63	1		Vinyl Chloride	0.31	0.50	0.24	1	J
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 6 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-20	**07-01-1067-6**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	1.2	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 7 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-21	**07-01-1067-7**	**01/18/07**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	0.56	1.0	0.30	1	J
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	1.2	1.0	0.17	1		Trichloroethene	6.4	1.0	0.31	1	
Dichlorodifluoromethane	1.5	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	7.1	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	74-140		1,2-Dichloroethane-d4	115	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 8 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-22	**07-01-1067-8**	**01/18/07**	**Aqueous**	**01/23/07**	**01/23/07**	**070123L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	24	50	7.0	1	J	Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	1.4	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	0.29	1.0	0.13	1	J
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	1.3	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	1.7	1.0	0.39	1		Toluene	8.9	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	2.1	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	0.20	1.0	0.13	1	J
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	0.83	1.0	0.63	1	J	Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	0.59	1.0	0.27	1	J
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	0.25	1.0	0.17	1	J
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	74-140		1,2-Dichloroethane-d4	115	74-146	
Toluene-d8	108	88-112		1,4-Bromofluorobenzene	103	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 9 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCFB	**07-01-1067-9**	**01/18/07**	**Aqueous**	**01/23/07**	**01/23/07**	**070123L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	0.33	1.0	0.23	1	J
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	74-140		1,2-Dichloroethane-d4	115	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	103	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 10 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCTB	**07-01-1067-10**	**01/18/07**	**Aqueous**	**01/23/07**	**01/23/07**	**070123L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	0.30	1.0	0.23	1	J
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	104	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 11 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,204**	**N/A**	**Aqueous**	**01/23/07**	**01/23/07**	**070123L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	107	88-112		1,4-Bromofluorobenzene	103	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/19/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: SD Inactive Landfill / Poway			Page 12 of 12

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,222**	**N/A**	**Aqueous**	**01/24/07**	**01/25/07**	**070124L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	93	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/19/07
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-13	**07-01-1067-1**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1000	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	5.1	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	340	20	4.2	10		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	83	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	214	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	170	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

POGW-14	**07-01-1067-2**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	540	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N) (1)	0.032	0.10	0.029	1	J	mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	66	4.0	0.84	2		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	75	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	138	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	180	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

POGW-16	**07-01-1067-3**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	707	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	1.7	0.50	0.15	5		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	130	10	2.1	5		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	64	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	352	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	140	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/19/07
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-17B	**07-01-1067-4**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1200	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	4.8	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	310	20	4.2	10		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	64	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	386	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	270	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

POGW-19	**07-01-1067-5**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1210	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	0.16	0.10	0.029	1		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	260	20	4.2	10		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	170	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	492	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	370	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

POGW-20	**07-01-1067-6**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	803	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	4.1	1.0	0.29	10		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	140	10	2.1	5		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	64	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	318	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	180	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/19/07
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-21	**07-01-1067-7**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1310	10	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N) (1)	0.30	1.0	0.29	10	J	mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	270	20	4.2	10		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	110	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	496	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	360	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

POGW-22	**07-01-1067-8**	**01/18/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	472	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N)	0.20	0.10	0.029	1		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate	76	4.0	0.84	2		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand	94	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	232	5.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride	83	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

Method Blank	**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/23/07	EPA 160.1
Nitrate (as N) (1)	ND	0.10	0.029	1		mg/L	N/A	01/19/07	EPA 353.3/354.1
Sulfate (1)	ND	2.0	0.42	1		mg/L	N/A	01/24/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	20	8.5	1		mg/L	01/22/07	01/22/07	EPA 410.4
Bicarbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Carbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/22/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/22/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/19/07
Work Order No:	07-01-1067
Preparation:	EPA 3010A Total
Method:	EPA 6010B

Project SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1096-1	**Aqueous**	**ICP 3300**	**01/22/07**	**01/23/07**	**070122S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Calcium	4X	4X	77-113	4X	0-11	Q
Magnesium	4X	4X	56-140	4X	0-11	Q
Potassium	101	102	83-131	0	0-7	
Sodium	80	103	73-127	5	0-9	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/19/07
Work Order No:	07-01-1067
Preparation:	EPA 5030B
Method:	EPA 8260B

Project SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
POGW-13	**Aqueous**	**GC/MS U**	**01/23/07**	**01/23/07**	**070123S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	109	88-118	2	0-7	
Carbon Tetrachloride	101	108	67-145	7	0-11	
Chlorobenzene	106	110	88-118	4	0-7	
1,2-Dichlorobenzene	106	109	86-116	3	0-8	
1,1-Dichloroethene	105	105	70-130	0	0-25	
Toluene	104	106	87-123	2	0-8	
Trichloroethene	108	111	79-127	3	0-10	
Vinyl Chloride	104	110	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	98	100	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	88	103	36-168	15	0-45	
Diisopropyl Ether (DIPE)	104	109	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	106	72-126	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	107	72-126	6	0-12	
Ethanol	103	83	53-149	22	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/19/07
Work Order No: 07-01-1067
Preparation: EPA 5030B
Method: EPA 8260B

Project SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
POGW-14	**Aqueous**	**GC/MS O**	**01/24/07**	**01/25/07**	**070124S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	102	88-118	0	0-7	
Carbon Tetrachloride	110	110	67-145	1	0-11	
Chlorobenzene	104	104	88-118	1	0-7	
1,2-Dichlorobenzene	103	105	86-116	2	0-8	
1,1-Dichloroethene	107	107	70-130	0	0-25	
Toluene	103	102	87-123	1	0-8	
Trichloroethene	102	98	79-127	2	0-10	
Vinyl Chloride	109	110	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	87	90	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	64	65	36-168	2	0-45	
Diisopropyl Ether (DIPE)	103	105	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	93	72-126	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	87	89	72-126	2	0-12	
Ethanol	107	99	53-149	8	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	EPA 375.4	POGW-22	01/24/07	N/A	91	89	70-130	1	0-25	
Nitrate (as N)	EPA 353.3/354.1	07-01-0998-1	01/19/07	N/A	98	98	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chloride	SM 4500-Cl C	POGW-13	01/22/07	170	170	1	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	POGW-13	01/22/07	214	214	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	POGW-13	01/22/07	214	214	0	0-25	
Carbonate (as CaCO3)	SM 2320B	POGW-13	01/22/07	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	POGW-13	01/22/07	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	07-01-1068-4	01/22/07	64	61	5	0-25	
Solids, Total Dissolved	EPA 160.1	POGW-13	01/23/07	1000	1010	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-6,820	**Aqueous**	**ICP 3300**	**01/23/07**	**070122-I-06**	**070122L06F**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Calcium	0.500	0.470	94	80-120	
Magnesium	0.500	0.474	95	80-120	
Potassium	5.00	4.83	97	80-120	
Sodium	5.00	5.15	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,204	**Aqueous**	**GC/MS U**	**01/23/07**	**01/23/07**	**070123L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	106	84-120	1	0-8	
Carbon Tetrachloride	109	111	63-147	1	0-10	
Chlorobenzene	107	106	89-119	0	0-7	
1,2-Dichlorobenzene	105	106	89-119	1	0-9	
1,1-Dichloroethene	108	108	77-125	1	0-16	
Toluene	103	103	83-125	0	0-9	
Trichloroethene	110	107	89-119	3	0-8	
Vinyl Chloride	105	106	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	89	89	82-118	0	0-13	
Tert-Butyl Alcohol (TBA)	70	82	46-154	15	0-32	
Diisopropyl Ether (DIPE)	105	105	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	103	74-122	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	103	76-124	1	0-10	
Ethanol	81	99	60-138	20	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1067
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: SD Inactive Landfill / Poway

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,222	**Aqueous**	**GC/MS O**	**01/24/07**	**01/24/07**	**070124L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	102	84-120	1	0-8	
Carbon Tetrachloride	108	110	63-147	1	0-10	
Chlorobenzene	103	103	89-119	0	0-7	
1,2-Dichlorobenzene	103	104	89-119	1	0-9	
1,1-Dichloroethene	106	108	77-125	2	0-16	
Toluene	103	104	83-125	1	0-9	
Trichloroethene	103	104	89-119	1	0-8	
Vinyl Chloride	114	115	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	88	91	82-118	4	0-13	
Tert-Butyl Alcohol (TBA)	61	62	46-154	1	0-32	
Diisopropyl Ether (DIPE)	102	105	81-123	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	94	74-122	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	86	89	76-124	3	0-10	
Ethanol	87	104	60-138	17	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1067

Project: SD Inactive Landfill / Poway

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Sulfate	EPA 375.4	099-05-091-1,373	01/24/07	N/A	20	20	102	80-120	
Nitrate (as N)	EPA 353.3/354.1	099-04-011-441	01/19/07	N/A	0.50	0.46	93	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-01-1067

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 1228 (1067)

Analysis Request and Chain of Custody Record

Project Name: SD County Inactive Landfills	Project Number: Poway Landfill
Samplers Names: Rory Klinger / Scott Lutz	Project Contact: D. Skippon
Laboratory Name: Cal Science Env. Labs	Lab Contact: S. Nowak
Lab Address: 7440 Lincoln Way, Garden Grove, CA	Lab Phone: (714) 895-5494
	Carrier/Waybill No.

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Required Analyses: VOCs by 8260; Metals + Gen Chem; SVOCs by 8270; TDS; COD

Bottle Type and Volume/Preservative: VOA HCl; Poly None; Poly None; Glass H_2SO_4

Sample Name	Date	Time	Sample Type	VOCs by 8260 (VOA HCl)	Metals + Gen Chem (Poly None)	SVOCs by 8270	TDS (Poly None)	COD (Glass H_2SO_4)	Comments	Lab Use Only: Condition of Bottles
POGW-13	1/18/07	0918	H_2O	3	1		1	1		
POGW-14		1011		3	1		1	1		
POGW-16		1026		3	1		1	1		
POGW-17B		0815		3	1		1	1		
POGW-19		1142		3	1		1	1		
POGW-20		1230		3	1		1	1		
POGW-21		1056		3	1		1	1		
POGW-22		1340		3	1		1	1		
QCFB		1219		2						
QCTB	1/18/07	—	H_2O	2						

Special Instructions: Filter + Preserve Metals upon receipt
Gen Chem: NO_3 (as N), SO_4, Cl, CO_3, HCO_3
Metals: Ca, Mg, K, Na

EDF

Turn-around Time: ☑ Normal ☐ Rush: ____

1. Relinquished by (Signiture/Affiliation) BBCEnv.	Date 1/18/7 Time 1315	1. Received by (Signiture/Affiliation) CEL	Date 1/19/7 Time 1315
2. Relinquished by (Signiture/Affiliation)	Date 1/19/7 Time 1610	2. Received by (Signiture/Affiliation) Calscience	Date 1/19/7 Time 1610
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

GEOSYNTEC CONSULTANTS 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 01 - 1067

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec **DATE:** 1/19/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ____ Ambient temperature.
- 3.7 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Present: ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS:

Calscience Environmental Laboratories, Inc.

February 05, 2007

Chris Gale
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-01-1531**
Client Reference: Poway Landfill / SC0233

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/26/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience
Environmental
Laboratories, Inc.

CASE NARRATIVE

Calscience Work Order No.: 07-01-1531

Provided below is a narrative of our analytical effort, including any unique features or anomalies that were encountered as part of the analysis of the water samples.

Sample Condition on Receipt

Five water samples were received as part of this Work Order on January 26, 2007. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.6°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. The following tests were performed:

Volatile Organics by EPA 8260B
Metals by EPA 6010B
Total Dissolved Solids by EPA 160.1
Nitrate by EPA 353.3/354.1
Sulfate by EPA 375.4
Chloride by SM 4500-CL C
Chemical Oxygen Demand by EPA 410.4
Bicarbonate by SM 2320B
Carbonate by SM 2320B

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Calscience Environmental Laboratories, Inc.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exceptions presented in Table A below.

Table A: Matrix Spike Recoveries and/or RPD outside acceptable limits	
EPA 8260B	
Batch #	Analyte(s)
070131S01	Toluene

Note that the corresponding Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Poway Landfill / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-01-1531-1**	**01/25/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L02F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	0.0446	0.100	0.00932	1	J	mg/L
Magnesium	0.00549	0.100	0.00328	1	J	mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	0.458	0.500	0.0192	1	J	mg/L

POGW-18B	**07-01-1531-2**	**01/25/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L02F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	19.4	0.100	0.00932	1		mg/L
Magnesium	20.7	0.100	0.00328	1		mg/L
Potassium	3.28	0.500	0.0561	1		mg/L
Sodium	227	0.500	0.0192	1		mg/L

POGW-13	**07-01-1531-3**	**01/26/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L02F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	56.1	0.100	0.00932	1		mg/L
Magnesium	48.3	0.100	0.00328	1		mg/L
Potassium	4.49	0.500	0.0561	1		mg/L
Sodium	232	0.500	0.0192	1		mg/L

POGW-11	**07-01-1531-4**	**01/26/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L02F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	70.6	0.100	0.00932	1		mg/L
Magnesium	82.4	0.100	0.00328	1		mg/L
Potassium	4.07	0.500	0.0561	1		mg/L
Sodium	175	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Poway Landfill / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-6,844**	**N/A**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L02F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	ND	0.100	0.00932	1		mg/L
Magnesium	ND	0.100	0.00328	1		mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	ND	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 1 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-01-1531-1**	**01/25/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	118	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 2 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-18B	**07-01-1531-2**	**01/25/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	74-140		1,2-Dichloroethane-d4	123	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-13	**07-01-1531-3**	**01/26/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	2.2	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	74-140		1,2-Dichloroethane-d4	122	74-146	
Toluene-d8	108	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-11	**07-01-1531-4**	**01/26/07**	**Aqueous**	**01/30/07**	**01/31/07**	**070130L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	122	74-146	
Toluene-d8	108	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 5 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCTB	**07-01-1531-5**	**01/25/07**	**Aqueous**	**01/31/07**	**01/31/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	74-140		1,2-Dichloroethane-d4	120	74-146	
Toluene-d8	107	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 6 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,267**	**N/A**	**Aqueous**	**01/30/07**	**01/30/07**	**070130L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	114	74-146	
Toluene-d8	107	88-112		1,4-Bromofluorobenzene	103	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/26/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway Landfill / SC0233			Page 7 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,287**	**N/A**	**Aqueous**	**01/31/07**	**01/31/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	116	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/26/07
Work Order No: 07-01-1531

Project: Poway Landfill / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix
QCEB	**07-01-1531-1**	**01/25/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/31/07	EPA 160.1
Nitrate (as N) (1)	0.060	0.10	0.029	1	J	mg/L	N/A	01/27/07	EPA 353.3/354.1
Sulfate (1)	1.3	2.0	0.42	1	J	mg/L	N/A	01/30/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/27/07	SM 4500-Cl C

POGW-18B	**07-01-1531-2**	**01/25/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	800	1.0	1.0	1		mg/L	N/A	01/31/07	EPA 160.1
Nitrate (as N)	3.9	2.5	0.73	25		mg/L	N/A	01/27/07	EPA 353.3/354.1
Sulfate	280	20	4.2	10		mg/L	N/A	01/30/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	222	5.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Chloride	110	2.0	1.0	1		mg/L	N/A	01/27/07	SM 4500-Cl C

POGW-13	**07-01-1531-3**	**01/26/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	993	1.0	1.0	1		mg/L	N/A	01/31/07	EPA 160.1
Nitrate (as N)	6.2	2.0	0.58	20		mg/L	N/A	01/27/07	EPA 353.3/354.1
Sulfate	300	20	4.2	10		mg/L	N/A	01/30/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	212	5.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Chloride	180	2.0	1.0	1		mg/L	N/A	01/27/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/26/07
Work Order No: 07-01-1531

Project: Poway Landfill / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix
POGW-11	**07-01-1531-4**	**01/26/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1080	10	1.0	1		mg/L	N/A	01/31/07	EPA 160.1
Nitrate (as N)	5.9	2.0	0.58	20		mg/L	N/A	01/27/07	EPA 353.3/354.1
Sulfate	280	20	4.2	10		mg/L	N/A	01/30/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	136	5.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Chloride	340	2.0	1.0	1		mg/L	N/A	01/27/07	SM 4500-Cl C

Method Blank	**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/31/07	EPA 160.1
Nitrate (as N) (1)	ND	0.10	0.029	1		mg/L	N/A	01/27/07	EPA 353.3/354.1
Sulfate (1)	ND	2.0	0.42	1		mg/L	N/A	01/30/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Carbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/30/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/27/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/26/07
Work Order No:	07-01-1531
Preparation:	EPA 3010A Total
Method:	EPA 200.7

Project Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1617-1	**Aqueous**	**ICP 3300**	**01/30/07**	**01/31/07**	**070130S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Calcium	4X	4X	80-120	4X	0-20	Q
Magnesium	4X	4X	80-120	4X	0-20	Q
Potassium	106	108	80-120	1	0-20	
Sodium	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/26/07
Work Order No:	07-01-1531
Preparation:	EPA 5030B
Method:	EPA 8260B

Project Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1446-3	**Aqueous**	**GC/MS U**	**01/30/07**	**01/30/07**	**070130S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	111	109	88-118	2	0-7	
Carbon Tetrachloride	105	106	67-145	1	0-11	
Chlorobenzene	111	110	88-118	1	0-7	
1,2-Dichlorobenzene	112	112	86-116	0	0-8	
1,1-Dichloroethene	111	105	70-130	5	0-25	
Toluene	107	107	87-123	0	0-8	
Trichloroethene	114	110	79-127	3	0-10	
Vinyl Chloride	92	94	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	107	100	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	88	99	36-168	12	0-45	
Diisopropyl Ether (DIPE)	109	109	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	106	108	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	111	72-126	2	0-12	
Ethanol	80	93	53-149	16	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/26/07
Work Order No:	07-01-1531
Preparation:	EPA 5030B
Method:	EPA 8260B

Project Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1525-1	**Aqueous**	**GC/MS U**	**01/31/07**	**01/31/07**	**070131S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	107	88-118	1	0-7	
Carbon Tetrachloride	97	105	67-145	9	0-11	
Chlorobenzene	107	109	88-118	2	0-7	
1,2-Dichlorobenzene	106	107	86-116	1	0-8	
1,1-Dichloroethene	98	83	70-130	16	0-25	
Toluene	107	89	87-123	19	0-8	4
Trichloroethene	107	108	79-127	1	0-10	
Vinyl Chloride	105	104	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	99	104	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	95	111	36-168	15	0-45	
Diisopropyl Ether (DIPE)	99	104	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	89	98	72-126	9	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	103	72-126	6	0-12	
Ethanol	111	109	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1531

Project: Poway Landfill / SC0233

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	EPA 375.4	07-01-1532-3	01/30/07	N/A	100	100	70-130	0	0-25	
Nitrate (as N)	EPA 353.3/354.1	07-01-1530-1	01/27/07	N/A	99	99	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1531

Project: Poway Landfill / SC0233

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chloride	SM 4500-Cl C	07-01-1530-1	01/27/07	460	460	0	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	07-01-1670-2	01/30/07	538	540	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	07-01-1670-2	01/30/07	538	540	0	0-25	
Carbonate (as CaCO3)	SM 2320B	07-01-1670-2	01/30/07	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	07-01-1670-2	01/30/07	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	07-01-1466-2	01/30/07	23	23	0	0-25	
Solids, Total Dissolved	EPA 160.1	07-01-1462-4	01/31/07	873	877	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-6,844	**Aqueous**	**ICP 3300**	**01/31/07**	**070130-I-02**	**070130L02F**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Calcium	0.500	0.487	97	80-120	
Magnesium	0.500	0.509	102	80-120	
Potassium	5.00	4.93	99	80-120	
Sodium	5.00	5.44	109	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,267	**Aqueous**	**GC/MS U**	**01/30/07**	**01/30/07**	**070130L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	106	84-120	0	0-8	
Carbon Tetrachloride	105	106	63-147	1	0-10	
Chlorobenzene	109	109	89-119	0	0-7	
1,2-Dichlorobenzene	111	111	89-119	0	0-9	
1,1-Dichloroethene	106	106	77-125	0	0-16	
Toluene	105	105	83-125	0	0-9	
Trichloroethene	108	108	89-119	0	0-8	
Vinyl Chloride	94	95	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	113	112	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	117	129	46-154	10	0-32	
Diisopropyl Ether (DIPE)	108	109	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	108	110	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	113	76-124	2	0-10	
Ethanol	131	135	60-138	3	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1531
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: Poway Landfill / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,287	**Aqueous**	**GC/MS U**	**01/31/07**	**01/31/07**	**070131L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-120	0	0-8	
Carbon Tetrachloride	107	105	63-147	2	0-10	
Chlorobenzene	105	105	89-119	0	0-7	
1,2-Dichlorobenzene	104	104	89-119	0	0-9	
1,1-Dichloroethene	103	101	77-125	2	0-16	
Toluene	99	101	83-125	2	0-9	
Trichloroethene	107	104	89-119	3	0-8	
Vinyl Chloride	105	106	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	101	101	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	108	119	46-154	10	0-32	
Diisopropyl Ether (DIPE)	102	101	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	97	97	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	100	76-124	1	0-10	
Ethanol	91	98	60-138	8	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1531

Project: Poway Landfill / SC0233

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Sulfate	EPA 375.4	099-05-091-1,375	01/30/07	N/A	20	21	103	80-120	
Nitrate (as N)	EPA 353.3/354.1	099-04-011-445	01/27/07	N/A	0.50	0.48	95	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-01-1531

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 1660

(1531)

Analysis Request and Chain of Custody Record

Page 1 of 1

Project Name: PQWAY	Project Number: SC0233
Samplers Names: D. SHAPAN	Project Contact: G. CALE
Laboratory Name: CALSCIENCE	Lab Contact: S. NOVAK
Lab Address: 7440 LINCOLN AV, CAMPON GROVE, CA	Lab Phone: 1-714-895-5494
	Carrier/Waybill No.: lab pickup

White copy: to accompany samples

Yellow copy: field copy

Required Analyses / **Bottle Type and Volume/Preservative** / **Number of Containers**

Sample Name	Date	Time	Sample Type	VOCs by 8260 (40 ml VOA HCl)	Metals	SVOCs by 8270	CAM 17 METALS (1 L HNO3)	TDS (1 L)	Cl2 (250 ml G HNO3)						Comments	Lab Use Only: Condition of Bottles
QCEB	1/25/07	16:45	H_2O	2			1	1	1							
POGW-18B	1/25/07	15:36	H_2O	3			1	1	1							
POGW-13	1/26/07	9:20	H_2O	3			1	1	1							
POGW-11	1/26/07	11:25	H_2O	3			1	1	1							
QCTB	lab	prep	H_2O	2												

Special Instructions: filter & preserve metals upon receipt — GMF Rep

Turn-around Time: ☒ Normal ☐ Rush: ____

1. Relinquished by (Signature/Affiliation): GSC	Date: 1/26/07 Time: 1420	1. Received by (Signature/Affiliation): CEL	Date: 1/26/7 Time: 1420
2. Relinquished by (Signature/Affiliation):	Date: 1/26/7 Time: 1720	2. Received by (Signature/Affiliation): CEL	Date: 1/26/7 Time: 1720
3. Relinquished by (Signature/Affiliation):	Date: Time:	3. Received by (Signature/Affiliation):	Date: Time:

GEOSYNTEC CONSULTANTS 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 0 1 - 1 5 3 1

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec **DATE:** 1/26/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- _____ Chilled, cooler with temperature blank provided.
- _____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- _____ Ambient and placed in cooler with wet ice.
- _____ Ambient temperature.

3.6 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- _____ °C Temperature blank.
- _____ °C IR thermometer.
- _____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS:

Calscience Environmental Laboratories, Inc.

February 05, 2007

Chris Gale
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-01-1423**
Client Reference: Poway / SC0233

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/25/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience
Environmental
Laboratories, Inc.

CASE NARRATIVE

Calscience Work Order No.: 07-01-1423

Provided below is a narrative of our analytical effort, including any unique features or anomalies that were encountered as part of the analysis of the water samples.

Sample Condition on Receipt

Five water samples were received as part of this Work Order on January 25, 2007. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.4°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. The following tests were performed:

Volatile Organics by EPA 8260B
Metals by EPA 6010B
Total Dissolved Solids by EPA 160.1
Nitrate by EPA 353.3/354.1
Sulfate by EPA 375.4
Chloride by SM 4500-CL C
Chemical Oxygen Demand by EPA 410.4
Bicarbonate by SM 2320B
Carbonate by SM 2320B

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

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Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exceptions presented in Table A below.

Table A: Matrix Spike Recoveries or RPD outside acceptable limits	
EPA 8260B	
Batch #	Analyte(s)
070131S01	Toluene

Note that the corresponding Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recovery were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

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Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Poway / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-01-1423-1**	**01/24/07**	**Aqueous**	**01/26/07**	**01/29/07**	**070126L15F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	0.0513	0.100	0.00932	1	J	mg/L
Magnesium	0.00784	0.100	0.00328	1	J	mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	0.127	0.500	0.0192	1	J	mg/L

POPW-1	**07-01-1423-2**	**01/25/07**	**Aqueous**	**01/26/07**	**01/29/07**	**070126L15F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	195	0.100	0.00932	1		mg/L
Magnesium	260	0.100	0.00328	1		mg/L
Potassium	13.8	0.500	0.0561	1		mg/L
Sodium	261	0.500	0.0192	1		mg/L

POGW-17B	**07-01-1423-3**	**01/25/07**	**Aqueous**	**01/26/07**	**01/29/07**	**070126L15F**

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	83.9	0.100	0.00932	1		mg/L
Magnesium	84.8	0.100	0.00328	1		mg/L
Potassium	1.44	0.500	0.0561	1		mg/L
Sodium	197	0.500	0.0192	1		mg/L

Method Blank	**097-01-003-6,837**	**N/A**	**Aqueous**	**01/26/07**	**01/29/07**	**070126L15F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Calcium	ND	0.100	0.00932	1		mg/L
Magnesium	ND	0.100	0.00328	1		mg/L
Potassium	ND	0.500	0.0561	1		mg/L
Sodium	ND	0.500	0.0192	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 1 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-01-1423-1**	**01/24/07**	**Aqueous**	**01/31/07**	**02/01/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	74-140		1,2-Dichloroethane-d4	119	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	97	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 2 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POPW-1	**07-01-1423-2**	**01/25/07**	**Aqueous**	**02/02/07**	**02/02/07**	**070202L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	1.1	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	1.7	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	0.98	1.0	0.30	1	J
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	0.49	1.0	0.17	1	J	Trichloroethene	1000	10	3.1	10	
Dichlorodifluoromethane	0.90	1.0	0.33	1	J	Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	0.61	1.0	0.26	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	330	10	6.3	10		Vinyl Chloride	1.8	0.50	0.24	1	
t-1,2-Dichloroethene	7.9	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	74-140		1,2-Dichloroethane-d4	116	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	90	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
POGW-17B	**07-01-1423-3**	**01/25/07**	**Aqueous**	**01/31/07**	**02/01/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	0.32	1.0	0.29	1	J	Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	0.29	1.0	0.17	1	J	Trichloroethene	0.65	1.0	0.31	1	J
Dichlorodifluoromethane	1.5	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	0.66	1.0	0.63	1	J	Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	74-140		1,2-Dichloroethane-d4	118	74-146	
Toluene-d8	107	88-112		1,4-Bromofluorobenzene	97	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCTB	**07-01-1423-4**	**01/25/07**	**Aqueous**	**01/31/07**	**02/01/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	74-140		1,2-Dichloroethane-d4	119	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	98	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 5 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
QCFB	**07-01-1423-5**	**01/25/07**	**Aqueous**	**01/31/07**	**02/01/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	74-140		1,2-Dichloroethane-d4	122	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	98	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 6 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,287**	**N/A**	**Aqueous**	**01/31/07**	**01/31/07**	**070131L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	116	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/25/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: Poway / SC0233			Page 7 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-20,317**	**N/A**	**Aqueous**	**02/02/07**	**02/02/07**	**070202L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		Acrylonitrile	ND	20	4.4	1	
Benzene	ND	0.50	0.19	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Bromobenzene	ND	1.0	0.26	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromochloromethane	ND	1.0	0.88	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromodichloromethane	ND	1.0	0.21	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromoform	ND	1.0	0.87	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromomethane	ND	10	3.5	1		Ethylbenzene	ND	1.0	0.13	1	
2-Butanone	ND	10	8.0	1		2-Hexanone	ND	10	3.4	1	
n-Butylbenzene	ND	1.0	0.25	1		Isopropylbenzene	ND	1.0	0.10	1	
sec-Butylbenzene	ND	1.0	0.29	1		p-Isopropyltoluene	ND	1.0	0.14	1	
tert-Butylbenzene	ND	1.0	0.19	1		Methylene Chloride	ND	10	9.7	1	
Carbon Tetrachloride	ND	0.50	0.29	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Chlorobenzene	ND	1.0	0.16	1		Naphthalene	ND	10	0.42	1	
Chloroethane	ND	1.0	0.70	1		n-Propylbenzene	ND	1.0	0.12	1	
Chloroform	ND	1.0	0.29	1		Styrene	ND	1.0	0.16	1	
Chloromethane	ND	10	2.1	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
2-Chlorotoluene	ND	1.0	0.16	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.18	1		Tetrachloroethene	ND	1.0	0.30	1	
Dibromochloromethane	ND	1.0	0.39	1		Toluene	ND	1.0	0.23	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
Dibromomethane	ND	1.0	0.82	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Hexachloro-1,3-Butadiene	ND	20	0.93	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		Trichloroethene	ND	1.0	0.31	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		Trichlorofluoromethane	ND	10	0.83	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
1,2-Dichloroethane	ND	0.50	0.25	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethene	ND	1.0	0.26	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		Vinyl Chloride	ND	0.50	0.24	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		p/m-Xylene	ND	1.0	0.27	1	
1,2-Dichloropropane	ND	1.0	0.55	1		o-Xylene	ND	1.0	0.17	1	
Acrolein	ND	20	8.6	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	115	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	91	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/25/07
Work Order No: 07-01-1423

Project: Poway / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix
QCEB	**07-01-1423-1**	**01/24/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/29/07	EPA 160.1
Nitrate (as N) (1)	0.058	0.10	0.029	1	J	mg/L	N/A	01/25/07	EPA 353.3/354.1
Sulfate (1)	ND	2.0	0.42	1		mg/L	N/A	01/26/07	EPA 375.4
Chemical Oxygen Demand	6.0	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/26/07	SM 4500-Cl C

POPW-1	**07-01-1423-2**	**01/25/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	2290	10	1.0	1		mg/L	N/A	01/29/07	EPA 160.1
Nitrate (as N)	5.7	1.0	0.29	10		mg/L	N/A	01/25/07	EPA 353.3/354.1
Sulfate	740	100	21	50		mg/L	N/A	01/26/07	EPA 375.4
Chemical Oxygen Demand	63	20	8.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	260	5.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Chloride	710	20	10	10		mg/L	N/A	01/26/07	SM 4500-Cl C

POGW-17B	**07-01-1423-3**	**01/25/07**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved	1130	10	1.0	1		mg/L	N/A	01/29/07	EPA 160.1
Nitrate (as N)	4.9	1.0	0.29	10		mg/L	N/A	01/25/07	EPA 353.3/354.1
Sulfate	390	40	8.4	20		mg/L	N/A	01/26/07	EPA 375.4
Chemical Oxygen Demand	15	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	366	5.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Carbonate (as CaCO3) (1)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Chloride	250	2.0	1.0	1		mg/L	N/A	01/26/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/25/07
Work Order No: 07-01-1423

Project: Poway / SC0233

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Dissolved (1)	ND	1.0	1.0	1		mg/L	N/A	01/29/07	EPA 160.1
Nitrate (as N) (1)	ND	0.10	0.029	1		mg/L	N/A	01/25/07	EPA 353.3/354.1
Sulfate (1)	ND	2.0	0.42	1		mg/L	N/A	01/26/07	EPA 375.4
Chemical Oxygen Demand (1)	ND	20	8.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Chemical Oxygen Demand (1)	ND	5.0	3.5	1		mg/L	01/30/07	01/30/07	EPA 410.4
Bicarbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Carbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	01/26/07	SM 2320B
Chloride (1)	ND	2.0	1.0	1		mg/L	N/A	01/26/07	SM 4500-Cl C

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/25/07
Work Order No:	07-01-1423
Preparation:	EPA 3010A Total
Method:	EPA 6010B

Project Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1449-1	**Aqueous**	**ICP 3300**	**01/26/07**	**01/29/07**	**070126S15**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Calcium	4X	4X	77-113	4X	0-11	Q
Magnesium	4X	4X	56-140	4X	0-11	Q
Potassium	103	117	83-131	7	0-7	
Sodium	4X	4X	73-127	4X	0-9	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	01/25/07
Work Order No:	07-01-1423
Preparation:	EPA 5030B
Method:	EPA 8260B

Project Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-01-1525-1	**Aqueous**	**GC/MS U**	**01/31/07**	**01/31/07**	**070131S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	107	88-118	1	0-7	
Carbon Tetrachloride	97	105	67-145	9	0-11	
Chlorobenzene	107	109	88-118	2	0-7	
1,2-Dichlorobenzene	106	107	86-116	1	0-8	
1,1-Dichloroethene	98	83	70-130	16	0-25	
Toluene	107	89	87-123	19	0-8	4
Trichloroethene	107	108	79-127	1	0-10	
Vinyl Chloride	105	104	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	99	104	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	95	111	36-168	15	0-45	
Diisopropyl Ether (DIPE)	99	104	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	89	98	72-126	9	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	103	72-126	6	0-12	
Ethanol	111	109	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/25/07
Work Order No: 07-01-1423
Preparation: EPA 5030B
Method: EPA 8260B

Project Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-02-0070-1	**Aqueous**	**GC/MS O**	**02/02/07**	**02/02/07**	**070202S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	88-118	1	0-7	
Carbon Tetrachloride	107	105	67-145	2	0-11	
Chlorobenzene	101	100	88-118	1	0-7	
1,2-Dichlorobenzene	100	99	86-116	1	0-8	
1,1-Dichloroethene	99	98	70-130	1	0-25	
Toluene	102	101	87-123	1	0-8	
Trichloroethene	102	102	79-127	0	0-10	
Vinyl Chloride	109	108	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	95	94	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	81	80	36-168	1	0-45	
Diisopropyl Ether (DIPE)	108	106	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	95	94	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	92	91	72-126	1	0-12	
Ethanol	101	97	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1423

Project: Poway / SC0233

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	EPA 375.4	07-01-1429-1	01/26/07	N/A	90	89	70-130	0	0-25	
Nitrate (as N)	EPA 353.3/354.1	POGW-17B	01/25/07	N/A	107	101	70-130	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1423

Project: Poway / SC0233

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chloride	SM 4500-Cl C	POPW-1	01/26/07	710	700	1	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	07-01-1473-1	01/26/07	172	172	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	07-01-1473-1	01/26/07	172	172	0	0-25	
Carbonate (as CaCO3)	SM 2320B	07-01-1473-1	01/26/07	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	07-01-1473-1	01/26/07	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	07-01-1445-2	01/30/07	160	160	1	0-25	
Chemical Oxygen Demand	EPA 410.4	07-01-1466-2	01/30/07	23	23	0	0-25	
Solids, Total Dissolved	EPA 160.1	07-01-1474-1	01/29/07	1670	1640	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants		Date Received:	N/A
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-01-1423
San Diego, CA 92127-2116		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-6,837	**Aqueous**	**ICP 3300**	**01/29/07**	**070126-I-15**	**070126L15F**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Calcium	0.500	0.529	106	80-120	
Magnesium	0.500	0.510	102	80-120	
Potassium	5.00	5.13	103	80-120	
Sodium	5.00	5.34	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	N/A
Work Order No:	07-01-1423
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,287	**Aqueous**	**GC/MS U**	**01/31/07**	**01/31/07**	**070131L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-120	0	0-8	
Carbon Tetrachloride	107	105	63-147	2	0-10	
Chlorobenzene	105	105	89-119	0	0-7	
1,2-Dichlorobenzene	104	104	89-119	0	0-9	
1,1-Dichloroethene	103	101	77-125	2	0-16	
Toluene	99	101	83-125	2	0-9	
Trichloroethene	107	104	89-119	3	0-8	
Vinyl Chloride	105	106	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	101	101	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	108	119	46-154	10	0-32	
Diisopropyl Ether (DIPE)	102	101	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	97	97	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	100	76-124	1	0-10	
Ethanol	91	98	60-138	8	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:	N/A
Work Order No:	07-01-1423
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: Poway / SC0233

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-20,317	**Aqueous**	**GC/MS O**	**02/02/07**	**02/02/07**	**070202L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	102	84-120	0	0-8	
Carbon Tetrachloride	108	109	63-147	0	0-10	
Chlorobenzene	100	101	89-119	1	0-7	
1,2-Dichlorobenzene	99	99	89-119	0	0-9	
1,1-Dichloroethene	99	99	77-125	0	0-16	
Toluene	101	101	83-125	0	0-9	
Trichloroethene	101	102	89-119	1	0-8	
Vinyl Chloride	109	108	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	89	91	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	62	67	46-154	8	0-32	
Diisopropyl Ether (DIPE)	105	106	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	91	93	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	87	88	76-124	1	0-10	
Ethanol	84	89	60-138	7	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-01-1423

Project: Poway / SC0233

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Sulfate	EPA 375.4	099-05-091-1,374	01/26/07	N/A	20	20	102	80-120	
Nitrate (as N)	EPA 353.3/354.1	099-04-011-444	01/25/07	N/A	0.50	0.48	95	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Document Number: 1661

Analysis Request and Chain of Custody Record

1423

Page 1 of 1

Project Name: Poway	Project Number: SC0233-
Samplers Names: D.Stupp/S Mathes	Project Contact: C Gale
Laboratory Name: Calscience	Lab Contact: Steve Nowak
Lab Address: 7440 Lincoln Ave	Lab Phone: 1-714-895-5494
	Carrier/Waybill No.: lab ~~Courier~~ Pickup

White copy: to accompany samples

Yellow copy: field copy

Required Analyses: VOCs by 8260; Metals Cr, Mn, Fe; SVOCs by 8270; COD; TDS; Gen Chem + Nitrates

Bottle Type and Volume/Preservative: 40ml VOA HCl; 1L Amb; 250ml H2SO4 P; 1L P; 1L P

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals Cr, Mn, Fe	SVOCs by 8270	COD	TDS	Gen Chem + Nitrates					Comments	Lab Use Only: Condition of Bottles
1 QCEB	1/24/07	12:45	H_2O	3			1	1	1					GEN CHEM	
2 POPW-1	1/25/07	9:23	H_2O	3			1	1	1					NITRATE (NO_3)	
3 POGW-17B	1/25/07	13:46	H_2O	3			1	1	1					SULFATE	
4 QCTB	~~1/25/07~~	lab prep	H_2O	2										BICARBONATE	
5 QCFB	1/25/07	14:00	H_2O	2										CARBONATE	
														CHLORIDE	

Special Instructions: Filter & Preserve Metals upon receipt

Turn-around Time: ☒ Normal ☐ Rush: _____

1. Relinquished by (Signiture/Affiliation) GSC	Date 1/25/07 Time 1424	1. Received by (Signiture/Affiliation) CEL	Date 1/25/7 Time 1424
2. Relinquished by (Signiture/Affiliation)	Date 1/25/7 Time 1640	2. Received by (Signiture/Affiliation) CEL	Date 1/25/7 Time 1640
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

GEOSYNTEC CONSULTANTS 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 0 1 - 1 4 2 3

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec DATE: 1/25/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

✓ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

3.4 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Soil Vapor Certificates of Analysis

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

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

This electronic report includes the following:

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0701332

Work Order Summary

CLIENT:	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127	**BILL TO:**	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127
PHONE:	858-674-6559	**P.O. #**	SC0233
FAX:	858-674-6586	**PROJECT #**	SC0233 Poway
DATE RECEIVED:	01/23/2007	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/30/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	PVP-5	Modified TO-15/TICs	3.0 "Hg
01AA	PVP-5 Duplicate	Modified TO-15/TICs	3.0 "Hg
02A	PVP-6	Modified TO-15/TICs	2.5 "Hg
03A	PVP-3A	Modified TO-15/TICs	2.5 "Hg
04A	PVP-3C	Modified TO-15/TICs	2.5 "Hg
05A	PVP-1A	Modified TO-15/TICs	3.5 "Hg
06A	PVP-2A	Modified TO-15/TICs	2.5 "Hg
07A	PVP-4A	Modified TO-15/TICs	4.0 "Hg
08A	QCTB	Modified TO-15/TICs	28.5 "Hg
09A	VW-2A	Modified TO-15/TICs	3.5 "Hg
10A	VW-1B	Modified TO-15/TICs	3.5 "Hg
11A	VW-1A	Modified TO-15/TICs	3.0 "Hg
12A	VW-4B	Modified TO-15/TICs	4.0 "Hg
13A	VW-4A	Modified TO-15/TICs	3.5 "Hg
14A	Lab Blank	Modified TO-15/TICs	NA
15A	CCV	Modified TO-15/TICs	NA
16A	LCS	Modified TO-15/TICs	NA

CERTIFIED BY: Linda L. Freeman DATE: 01/30/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0701332

Thirteen 1 Liter Summa Canister (100% Certified) samples were received on January 23, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Receiving Notes

Sample collection date was not provided on the Chain of Custody for samples PVP-3A, PVP-3C, PVP-1A, PVP-2A, PVP-4A, QCTB, VW-2A and VW-1B. The sampling date was taken from the tag and the discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: PVP-5

Lab ID#: 0701332-01A

No Detections Were Found.

Client Sample ID: PVP-5 Duplicate

Lab ID#: 0701332-01AA

No Detections Were Found.

Client Sample ID: PVP-6

Lab ID#: 0701332-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.4	4.6	10	11

Client Sample ID: PVP-3A

Lab ID#: 0701332-03A

No Detections Were Found.

Client Sample ID: PVP-3C

Lab ID#: 0701332-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.1	1.1	7.5	7.5

Client Sample ID: PVP-1A

Lab ID#: 0701332-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	6.7	5.7	33
Freon 113	1.1	3.9	8.8	30
Chloroform	1.1	3.4	5.6	16
Toluene	1.1	5.9	4.3	22
Ethyl Benzene	1.1	2.9	5.0	13
m,p-Xylene	1.1	12	5.0	53
o-Xylene	1.1	3.7	5.0	16
4-Ethyltoluene	1.1	3.8	5.6	18
1,3,5-Trimethylbenzene	1.1	1.3	5.6	6.5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: PVP-1A

Lab ID#: 0701332-05A

1,2,4-Trimethylbenzene	1.1	4.9	5.6	24

Client Sample ID: PVP-2A

Lab ID#: 0701332-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	49	5.4	240
Freon 114	1.1	5.0	7.7	35
Freon 113	1.1	140	8.4	1100
2-Butanone (Methyl Ethyl Ketone)	1.1	2.2	3.2	6.4
Toluene	1.1	4.0	4.1	15
Tetrachloroethene	1.1	2.5	7.5	17
Ethyl Benzene	1.1	2.7	4.8	12
m,p-Xylene	1.1	3.7	4.8	16
o-Xylene	1.1	1.8	4.8	7.6
4-Ethyltoluene	1.1	1.2	5.4	5.8

Client Sample ID: PVP-4A

Lab ID#: 0701332-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	8.5	5.8	42
Tetrachloroethene	1.2	2.2	7.9	15

Client Sample ID: QCTB

Lab ID#: 0701332-08A

No Detections Were Found.

Client Sample ID: VW-2A

Lab ID#: 0701332-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.6	5.4	11	13
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.4	6.9
Tetrahydrofuran	1.1	1.5	3.4	4.3

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW-1B

Lab ID#: 0701332-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	1.1	2.7	5.6	13

Client Sample ID: VW-1A

Lab ID#: 0701332-11A

No Detections Were Found.

Client Sample ID: VW-4B

Lab ID#: 0701332-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.9	5.8	14
Freon 113	1.2	1.4	8.9	11
Tetrachloroethene	1.2	60	7.9	400

Client Sample ID: VW-4A

Lab ID#: 0701332-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.5	5.7	7.6
Acetone	4.6	5.7	11	14
Carbon Disulfide	1.1	13	3.6	39
Methylene Chloride	1.1	16	4.0	57
Hexane	1.1	3.5	4.0	12
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.4	4.2
Toluene	1.1	2.6	4.3	9.8
Tetrachloroethene	1.1	9.6	7.8	65

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5

Lab ID#: 0701332-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012411**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/24/07 04:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5

Lab ID#: 0701332-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012411**	**Date of Collection: 1/22/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 1/24/07 04:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5 Duplicate

Lab ID#: 0701332-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012412**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/24/07 05:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5 Duplicate

Lab ID#: 0701332-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012412**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/24/07 05:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-6

Lab ID#: 0701332-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012424**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 01:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	4.6	10	11
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-6

Lab ID#: 0701332-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012424**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 01:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-3A

Lab ID#: 0701332-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012413**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/24/07 05:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-3A

Lab ID#: 0701332-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012413**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/24/07 05:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	91	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-3C

Lab ID#: 0701332-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012414**	**Date of Collection: 1/22/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 1/24/07 06:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-3C

Lab ID#: 0701332-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012414**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/24/07 06:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	1.1	7.5	7.5
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-1A

Lab ID#: 0701332-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012415**	**Date of Collection: 1/22/07**	
Dil. Factor:	**2.29**	**Date of Analysis: 1/24/07 06:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	6.7	5.7	33
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	3.9	8.8	30
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	Not Detected	11	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	3.4	5.6	16
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	5.9	4.3	22
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-1A

Lab ID#: 0701332-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012415**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/24/07 06:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	2.9	5.0	13
m,p-Xylene	1.1	12	5.0	53
o-Xylene	1.1	3.7	5.0	16
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	3.8	5.6	18
1,3,5-Trimethylbenzene	1.1	1.3	5.6	6.5
1,2,4-Trimethylbenzene	1.1	4.9	5.6	24
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-2A

Lab ID#: 0701332-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012416**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/24/07 07:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	49	5.4	240
Freon 114	1.1	5.0	7.7	35
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	140	8.4	1100
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	2.2	3.2	6.4
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	4.0	4.1	15
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-2A

Lab ID#: 0701332-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012416**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/24/07 07:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	2.5	7.5	17
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	2.7	4.8	12
m,p-Xylene	1.1	3.7	4.8	16
o-Xylene	1.1	1.8	4.8	7.6
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	1.2	5.4	5.8
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4A

Lab ID#: 0701332-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012417**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/24/07 07:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	8.5	5.8	42
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	Not Detected	11	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4A

Lab ID#: 0701332-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012417**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/24/07 07:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	2.2	7.9	15
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0701332-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012418**	**Date of Collection: 1/22/07**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 08:30 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0701332-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012418**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**1.00**	**Date of Analysis:**	**1/24/07 08:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-2A

Lab ID#: 0701332-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012419**	**Date of Collection: 1/22/07**	
Dil. Factor:	**2.29**	**Date of Analysis: 1/24/07 10:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	5.4	11	13
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.4	6.9
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	1.5	3.4	4.3
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-2A

Lab ID#: 0701332-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012419**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/24/07 10:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1B

Lab ID#: 0701332-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012420**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/24/07 11:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	Not Detected	11	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	2.7	5.6	13
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1B

Lab ID#: 0701332-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012420**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/24/07 11:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1A

Lab ID#: 0701332-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012421**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 12:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1A

Lab ID#: 0701332-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012421**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 12:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4B

Lab ID#: 0701332-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012422**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 12:34 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.9	5.8	14
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	1.4	8.9	11
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	Not Detected	11	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4B

Lab ID#: 0701332-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012422**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 12:34 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	60	7.9	400
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	90	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4A

Lab ID#: 0701332-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012423**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/25/07 01:07 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.5	5.7	7.6
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	5.7	11	14
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	13	3.6	39
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	16	4.0	57
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	3.5	4.0	12
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.4	4.2
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	2.6	4.3	9.8
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4A

Lab ID#: 0701332-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012423**	**Date of Collection:**	**1/22/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/25/07 01:07 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	9.6	7.8	65
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0701332-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 12:50 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0701332-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 12:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0701332-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012403**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 10:59 AM**

Compound	%Recovery
Freon 12	113
Freon 114	105
Chloromethane	99
Vinyl Chloride	99
1,3-Butadiene	95
Bromomethane	101
Chloroethane	113
Freon 11	117
Ethanol	92
Freon 113	107
1,1-Dichloroethene	106
Acetone	108
2-Propanol	102
Carbon Disulfide	108
3-Chloropropene	92
Methylene Chloride	102
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	106
Hexane	108
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	107
Tetrahydrofuran	95
Chloroform	105
1,1,1-Trichloroethane	111
Cyclohexane	101
Carbon Tetrachloride	113
2,2,4-Trimethylpentane	99
Benzene	105
1,2-Dichloroethane	116
Heptane	101
Trichloroethene	108
1,2-Dichloropropane	97
1,4-Dioxane	103
Bromodichloromethane	115
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	102
Toluene	113
trans-1,3-Dichloropropene	111

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0701332-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 10:59 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	103
Tetrachloroethene	110
2-Hexanone	103
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	111
Chlorobenzene	105
Ethyl Benzene	107
m,p-Xylene	116
o-Xylene	113
Styrene	100
Bromoform	128
Cumene	110
1,1,2,2-Tetrachloroethane	103
Propylbenzene	124
4-Ethyltoluene	127
1,3,5-Trimethylbenzene	121
1,2,4-Trimethylbenzene	126
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0701332-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012404**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 11:58 AM**

Compound	%Recovery
Freon 12	115
Freon 114	114
Chloromethane	104
Vinyl Chloride	102
1,3-Butadiene	114
Bromomethane	94
Chloroethane	94
Freon 11	120
Ethanol	57 Q
Freon 113	108
1,1-Dichloroethene	106
Acetone	96
2-Propanol	99
Carbon Disulfide	119
3-Chloropropene	93
Methylene Chloride	98
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	109
Hexane	112
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	98
Tetrahydrofuran	94
Chloroform	104
1,1,1-Trichloroethane	108
Cyclohexane	106
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	100
Benzene	102
1,2-Dichloroethane	114
Heptane	100
Trichloroethene	102
1,2-Dichloropropane	94
1,4-Dioxane	98
Bromodichloromethane	113
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	99
Toluene	106
trans-1,3-Dichloropropene	112

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0701332-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/24/07 11:58 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	101
Tetrachloroethene	110
2-Hexanone	99
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	112
Chlorobenzene	105
Ethyl Benzene	107
m,p-Xylene	128
o-Xylene	114
Styrene	106
Bromoform	124
Cumene	112
1,1,2,2-Tetrachloroethane	108
Propylbenzene	129
4-Ethyltoluene	136
1,3,5-Trimethylbenzene	132 Q
1,2,4-Trimethylbenzene	138 Q
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	127
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of ____

Project Manager Chris Gale
Collected by: (Print and Sign) Christopher Gale
Company Geosyntec Consultants Email cgale@geosyntec.com
Address 10875 Rancho Bernardo Rd Ste. 200 City San Diego State CA Zip 92127
Phone 858.674.6559 Fax 858.674.6586

Project Info:
P.O. # SC0233
Project # SC0233
Project Name Poway

Turn Around Time:
☐ Normal
☒ Rush 72 hr (specify)

Lab Use Only
Pressurized by: VKR
Date: 1/23/07
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	PVP-5	3399	1/22/2007	925	TO-15 + TICs*	-29	-3	3.0"Hg	15.0 psi
02A	PVP-6	34176	1/22/2007	917		-29.5	-2.0	2.5"Hg	
03A	PVP-3A	34156		1105		-29	-1.5	2.5"Hg	
04A	PVP-3C	34117		1105		-29	-1.5	2.5"Hg	
05A	PVP-1A	2116		1042		-30	-1.5	3.5"Hg	
06A	PVP-2A	2767		1224		-30	-1.0	2.5"Hg	
07A	PVP-4A	9318		1200		-28.5	-3.5	4.0"Hg	
08A	QCTB	22965		—		—	—	28.5"Hg	
09A	VW-2A	35638		1915		-30.0	-3.0	3.5"Hg	
10A	VW-1B	13388		1510		-28.5	-3.5	3.5"Hg	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
GSC	1/22/2007 18:00	FedEx # 8597 8663 1346	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Jensen ATL	1/23/07 830
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* See K. Vagadori for TICs.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8597 8663 1346	N/A	Good	Yes No None	0701332

Form 1298 rev.11

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Chris Gale
Collected by: (Print and Sign) Chris Gale
Company: Geosyntec Email: cgale@geosyntec.com
Address: City: State: Zip:
Phone: Fax:

Project Info:
P.O. # SC0233
Project # SC0233
Project Name: Poway

Turn Around Time:
☐ Normal
☒ Rush 72hr (specify)

Lab Use Only
Pressurized by: VFR
Date: 1/23/07
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	VW-1A	34620	1/22/2007	1613	TO-15 + TICs*	-28.5	-3.5	3.0%	15.0 psi
12A	VW-4B	12359		1520		-30.0	-4.0	4.0%	
13A	VW-4A	30824		1405		-29.5	-4.0	3.5%	✓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
GSC	1/22/2007 1300	FedEx # 859786631346	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Gregen ATL	1/23/07 830
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* See K. Vagedes re: TICs

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	859786631346	NA	Good	Yes No None	0701332

Form 1293 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

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

This electronic report includes the following:

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0701363

Work Order Summary

CLIENT:	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127	**BILL TO:**	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127
PHONE:	858-674-6559	**P.O. #**	
FAX:	858-674-6586	**PROJECT #**	SC0233 Poway Landfill
DATE RECEIVED:	01/24/2007	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/31/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VW-3A	Modified TO-15/TICs	0.0 "Hg
02A	VW-5A	Modified TO-15/TICs	3.5 "Hg
03A	VW-8B	Modified TO-15/TICs	3.0 "Hg
04A	VW-6A	Modified TO-15/TICs	3.0 "Hg
05A	VW-8A	Modified TO-15/TICs	2.0 "Hg
06A	VW-8C	Modified TO-15/TICs	3.0 "Hg
07A	VW-7A	Modified TO-15/TICs	3.0 "Hg
08A	VW-12	Modified TO-15/TICs	4.0 "Hg
08AA	VW-12 Duplicate	Modified TO-15/TICs	4.0 "Hg
09A	VW-13	Modified TO-15/TICs	4.0 "Hg
10A	VW-10	Modified TO-15/TICs	2.5 "Hg
11A	VW-14	Modified TO-15/TICs	3.0 "Hg
12A	QCTB	Modified TO-15/TICs	18.5 "Hg
13A	VW-11	Modified TO-15/TICs	2.5 "Hg
14A	Lab Blank	Modified TO-15/TICs	NA
15A	CCV	Modified TO-15/TICs	NA
16A	LCS	Modified TO-15/TICs	NA

CERTIFIED BY: Linda L. Freeman DATE: 01/31/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0701363

Thirteen 1 Liter Summa Canister (100% Certified) samples were received on January 24, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Receiving Notes

The Chain of Custody (COC) information for sample QCTB did not match the entry on the sample tag with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the sample.

The Chain of Custody (COC) information for sample VW-3A did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

The trip blank, sample QCTB, was received at low vacuum (<25"Hg). The client was notified and requested the analysis proceed.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW-3A

Lab ID#: 0701363-01A

No Detections Were Found.

Client Sample ID: VW-5A

Lab ID#: 0701363-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	2.0	5.7	9.7
Freon 113	1.1	1.4	8.8	11
Tetrachloroethene	1.1	8.2	7.8	56

Client Sample ID: VW-8B

Lab ID#: 0701363-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.3	5.5	6.4

Client Sample ID: VW-6A

Lab ID#: 0701363-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.5	7.7	8.4	14
Acetone	4.5	18	11	44
2-Butanone (Methyl Ethyl Ketone)	1.1	4.6	3.3	13
Chloroform	1.1	1.4	5.5	6.7
1,2-Dichlorobenzene	1.1	2.2	6.7	14

Client Sample ID: VW-8A

Lab ID#: 0701363-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.2	5.3	5.8

Client Sample ID: VW-8C

Lab ID#: 0701363-06A

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW-8C

Lab ID#: 0701363-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.4	5.5	6.7
1,4-Dioxane	4.5	5.0	16	18

Client Sample ID: VW-7A

Lab ID#: 0701363-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.6

Client Sample ID: VW-12

Lab ID#: 0701363-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	24	5.8	120
Freon 114	1.2	1.2	8.1	8.4
Freon 113	1.2	17	8.9	130
Acetone	4.7	8.1	11	19
2-Butanone (Methyl Ethyl Ketone)	1.2	2.3	3.4	6.7
Tetrachloroethene	1.2	3.6	7.9	24

Client Sample ID: VW-12 Duplicate

Lab ID#: 0701363-08AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	22	5.8	110
Freon 114	1.2	1.2	8.1	8.8
Freon 113	1.2	19	8.9	140
Acetone	4.7	7.0	11	17
2-Butanone (Methyl Ethyl Ketone)	1.2	1.6	3.4	4.9
Tetrahydrofuran	1.2	1.5	3.4	4.3
Tetrachloroethene	1.2	3.6	7.9	24

Client Sample ID: VW-13

Lab ID#: 0701363-09A

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW-13

Lab ID#: 0701363-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.2	1.7	4.8	7.1
Ethyl Benzene	1.2	1.5	5.0	6.7
m,p-Xylene	1.2	2.6	5.0	12

Client Sample ID: VW-10

Lab ID#: 0701363-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Disulfide	1.1	1.1	3.4	3.6
Benzene	1.1	1.3	3.5	4.0
m,p-Xylene	1.1	1.6	4.8	6.8

Client Sample ID: VW-14

Lab ID#: 0701363-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	7.6	5.5	37
Freon 113	1.1	3.2	8.6	24
Acetone	4.5	17	11	41
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.3	6.8

Client Sample ID: QCTB

Lab ID#: 0701363-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	2.0	2.6	3.8	5.0
Acetone	2.0	2.8	4.8	6.6
Methylene Chloride	0.50	0.74	1.7	2.6
2-Butanone (Methyl Ethyl Ketone)	0.50	0.56	1.5	1.6
Toluene	0.50	1.7	1.9	6.4

Client Sample ID: VW-11

Lab ID#: 0701363-13A

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW-11

Lab ID#: 0701363-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.4	6.7	10	16
2-Butanone (Methyl Ethyl Ketone)	1.1	1.3	3.2	3.9
m,p-Xylene	1.1	1.9	4.8	8.4

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-3A

Lab ID#: 0701363-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012507**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.02**	**Date of Analysis:**	**1/25/07 02:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Chloromethane	4.0	Not Detected	8.3	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Ethanol	4.0	Not Detected	7.6	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	4.0	Not Detected	9.6	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
Carbon Disulfide	1.0	Not Detected	3.1	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-3A

Lab ID#: 0701363-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012507**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.02**	**Date of Analysis:**	**1/25/07 02:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-5A

Lab ID#: 0701363-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012508**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/25/07 04:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	2.0	5.7	9.7
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	1.4	8.8	11
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	Not Detected	11	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-5A

Lab ID#: 0701363-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012508**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/25/07 04:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	8.2	7.8	56
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8B

Lab ID#: 0701363-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012509**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 04:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.3	5.5	6.4
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8B

Lab ID#: 0701363-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012509**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 04:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-6A

Lab ID#: 0701363-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012510**	**Date of Collection: 1/23/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 1/25/07 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	7.7	8.4	14
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	18	11	44
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	4.6	3.3	13
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	1.4	5.5	6.7
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-6A

Lab ID#: 0701363-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012510**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 05:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	2.2	6.7	14
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8A

Lab ID#: 0701363-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012511**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/25/07 05:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.2	5.3	5.8
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.2	Not Detected
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.3	Not Detected	8.1	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	4.3	Not Detected	10	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8A

Lab ID#: 0701363-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012511**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/25/07 05:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8C

Lab ID#: 0701363-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012512**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 06:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	1.4	5.5	6.7
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	5.0	16	18
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-8C

Lab ID#: 0701363-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012512**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 06:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-7A

Lab ID#: 0701363-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012513**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 06:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.6
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-7A

Lab ID#: 0701363-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012513**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 06:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	102	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12

Lab ID#: 0701363-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012514**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 07:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	24	5.8	120
Freon 114	1.2	1.2	8.1	8.4
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	17	8.9	130
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	8.1	11	19
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.3	3.4	6.7
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12

Lab ID#: 0701363-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012514**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 07:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	3.6	7.9	24
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12 Duplicate

Lab ID#: 0701363-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012515**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 08:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	22	5.8	110
Freon 114	1.2	1.2	8.1	8.8
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	19	8.9	140
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	7.0	11	17
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	1.6	3.4	4.9
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	1.5	3.4	4.3
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12 Duplicate

Lab ID#: 0701363-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012515**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 08:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	3.6	7.9	24
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-13

Lab ID#: 0701363-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012516**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	Not Detected	11	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	1.7	4.8	7.1
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-13

Lab ID#: 0701363-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012516**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/25/07 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	1.5	5.0	6.7
m,p-Xylene	1.2	2.6	5.0	12
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-10

Lab ID#: 0701363-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012517**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 10:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	1.1	3.4	3.6
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	1.3	3.5	4.0
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-10

Lab ID#: 0701363-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012517**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 10:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	1.6	4.8	6.8
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-14

Lab ID#: 0701363-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012518**	**Date of Collection: 1/23/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 1/25/07 10:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	7.6	5.5	37
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	3.2	8.6	24
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	17	11	41
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.3	6.8
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-14

Lab ID#: 0701363-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012518**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.24**	**Date of Analysis:**	**1/25/07 10:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0701363-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012519**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 11:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	2.6	3.8	5.0
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	2.8	4.8	6.6
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.74	1.7	2.6
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	0.56	1.5	1.6
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	1.7	1.9	6.4
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0701363-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012519**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 11:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-11

Lab ID#: 0701363-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012520**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 11:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	6.7	10	16
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.3	3.2	3.9
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-11

Lab ID#: 0701363-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012520**	**Date of Collection:**	**1/23/07**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/25/07 11:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	1.9	4.8	8.4
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	105	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0701363-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 12:47 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0701363-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 12:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0701363-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 10:08 AM**

Compound	%Recovery
Freon 12	101
Freon 114	98
Chloromethane	98
Vinyl Chloride	92
1,3-Butadiene	92
Bromomethane	92
Chloroethane	103
Freon 11	109
Ethanol	84
Freon 113	101
1,1-Dichloroethene	98
Acetone	100
2-Propanol	95
Carbon Disulfide	103
3-Chloropropene	88
Methylene Chloride	97
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	99
Hexane	100
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	99
Tetrahydrofuran	87
Chloroform	98
1,1,1-Trichloroethane	105
Cyclohexane	96
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	90
Benzene	94
1,2-Dichloroethane	104
Heptane	84
Trichloroethene	97
1,2-Dichloropropane	87
1,4-Dioxane	93
Bromodichloromethane	103
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	94
Toluene	92
trans-1,3-Dichloropropene	98

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0701363-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 10:08 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	94
Tetrachloroethene	100
2-Hexanone	89
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	98
Chlorobenzene	97
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	97
Styrene	91
Bromoform	113
Cumene	98
1,1,2,2-Tetrachloroethane	96
Propylbenzene	110
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0701363-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 10:37 AM**

Compound	%Recovery
Freon 12	108
Freon 114	106
Chloromethane	93
Vinyl Chloride	92
1,3-Butadiene	107
Bromomethane	86
Chloroethane	83
Freon 11	110
Ethanol	50 Q
Freon 113	102
1,1-Dichloroethene	101
Acetone	95
2-Propanol	92
Carbon Disulfide	112
3-Chloropropene	82
Methylene Chloride	92
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	104
Hexane	104
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	92
Tetrahydrofuran	86
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	98
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	91
Benzene	91
1,2-Dichloroethane	99
Heptane	90
Trichloroethene	91
1,2-Dichloropropane	81
1,4-Dioxane	88
Bromodichloromethane	102
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	93
Toluene	86
trans-1,3-Dichloropropene	100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0701363-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/07 10:37 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	92
Tetrachloroethene	99
2-Hexanone	88
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	99
Chlorobenzene	95
Ethyl Benzene	95
m,p-Xylene	102
o-Xylene	96
Styrene	94
Bromoform	108
Cumene	100
1,1,2,2-Tetrachloroethane	96
Propylbenzene	115
4-Ethyltoluene	122
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	102	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Contact Person: C. GALE
Company: GEOSYNTEC CONSULTANTS Email: cgale@geosyntec.com
Address: 10875 RANCHO BERNARDO RD City: SAN DIEGO State: CA Zip: 92127
Phone: 858-674-6559 Fax: —
Collected by: (Signature) GSC

Project Info:
P.O. #:
Project #: SC0233
Project Name: POWAY LANDFILL

Turn Around Time:
☐ Normal
☒ Rush 72 HR
specify

Lab Use Only
Pressurized by: BB
Date: 1/25/07
Pressurization Gas: (N2) He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	VW-3A	35 638	1/23/07	9:20	T015	28.5	1	0.0"Hg	15.0
02A	VW-5A	14 83		9:22		30	1	3.5"Hg	
03A	VW-8B	34 140		10:30		28.5	2.5	3.0"Hg	
04A	VW-6A	14 64		10:32		30	3	3.0"Hg	
05A	VW-8A	20 781		11:30		29	2.5	2.0"Hg	
06A	VW-8C	123 72		11:30		28.5	3.5	3.0"Hg	
07A	VW-7A	34 036		11:47		30	3	3.0"Hg	
08A	VW-12	35 623		13:36		28.5	3	4.0"Hg	
09A	VW-13	922 2		13:37		30	3	4.0"Hg	
10A	VW-10	744 1		14:31		28.5	2.5	2.5"Hg	

Relinquished by: (signature) Date/Time: GSC 1/23/07
Received by: (signature) Date/Time: 1/24/07 Notes: FEDEX 8597 8742 5981 6:30 pm

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time: Blaffish-ATL 1/24/07 0830

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	FEDEX	8597 8742 5981	N/A	good	Yes No None	0701363

Form 1298 rev.10

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: C. GALE
Collected by: (Print and Sign) J GEOYNTEC C GALE
Company: GEOYNTEC Email: cgale@geoyntec.com
Address: 10875 RANCHO BERNARDO RD City: SAN DIEGO State: CA Zip: 92127
Phone: 858-674-6559 Fax:

Project Info:
P.O. #:
Project #: SC0233
Project Name: POWAY LANDFILL

Turn Around Time:
☐ Normal
☒ Rush 72 HR (specify)

Lab Use Only
Pressurized by: B
Date: 1/25/07
Pressurization Gas: (N2) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	VW-14	~~34062~~ 34602	1/23/07	1431	TO 15	29	3.5	3.0 psig	15.0 psi
12A	QCTB	93110	—	—	↓	20	—	18.5 psig	↓
13A	VW-11	34099	1/23/07	15:46	TO 15	28.5	2.5	2.5 psig	↓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
GSC	1/23/07	FEDEX 8597 8742 5981	1/24/07 630
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		T. Lattish-ATL	1/24/07 0830
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8597 8742 5981	NA	Good	Yes No None	0701363

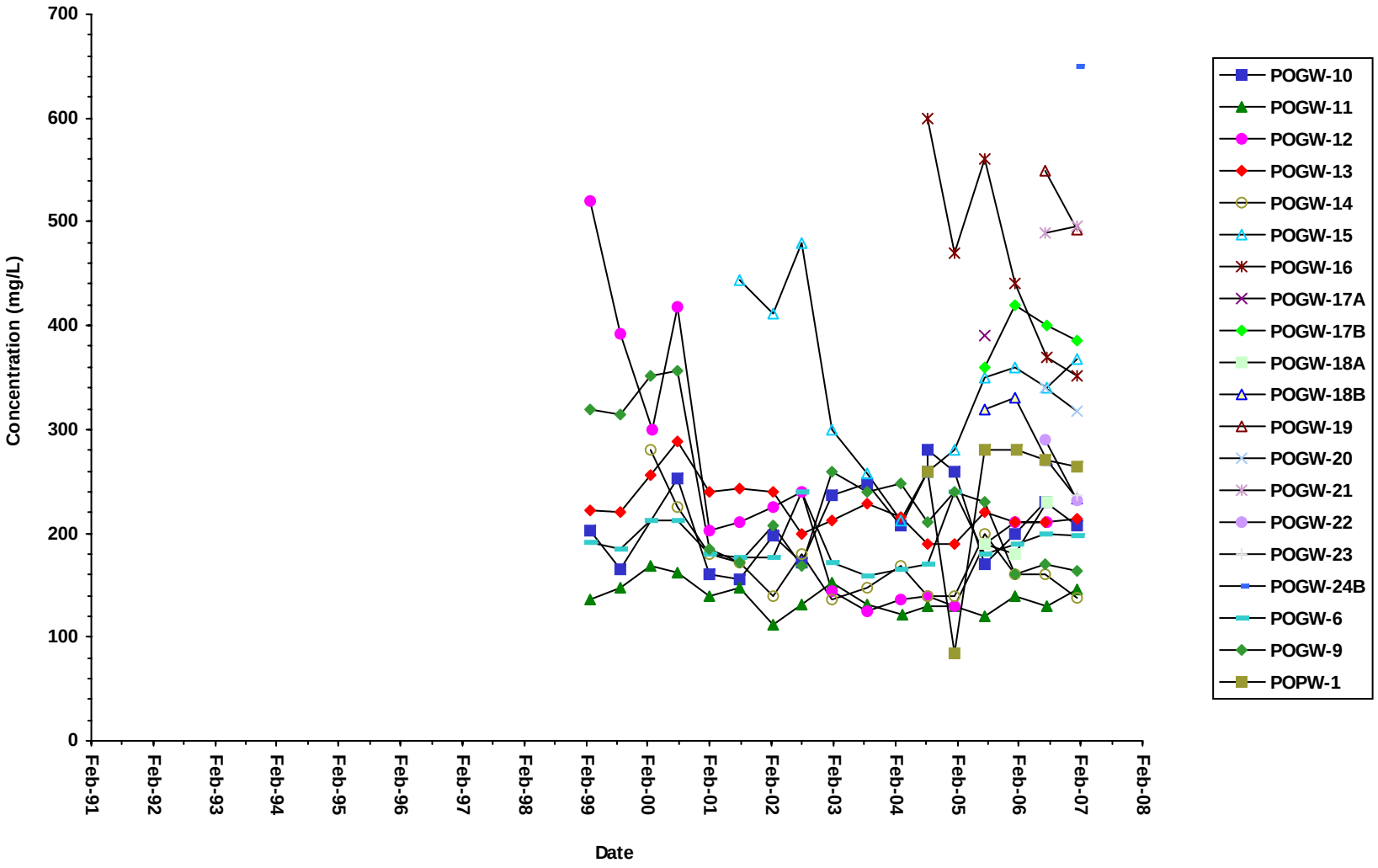
Form 293 rev.11

APPENDIX D

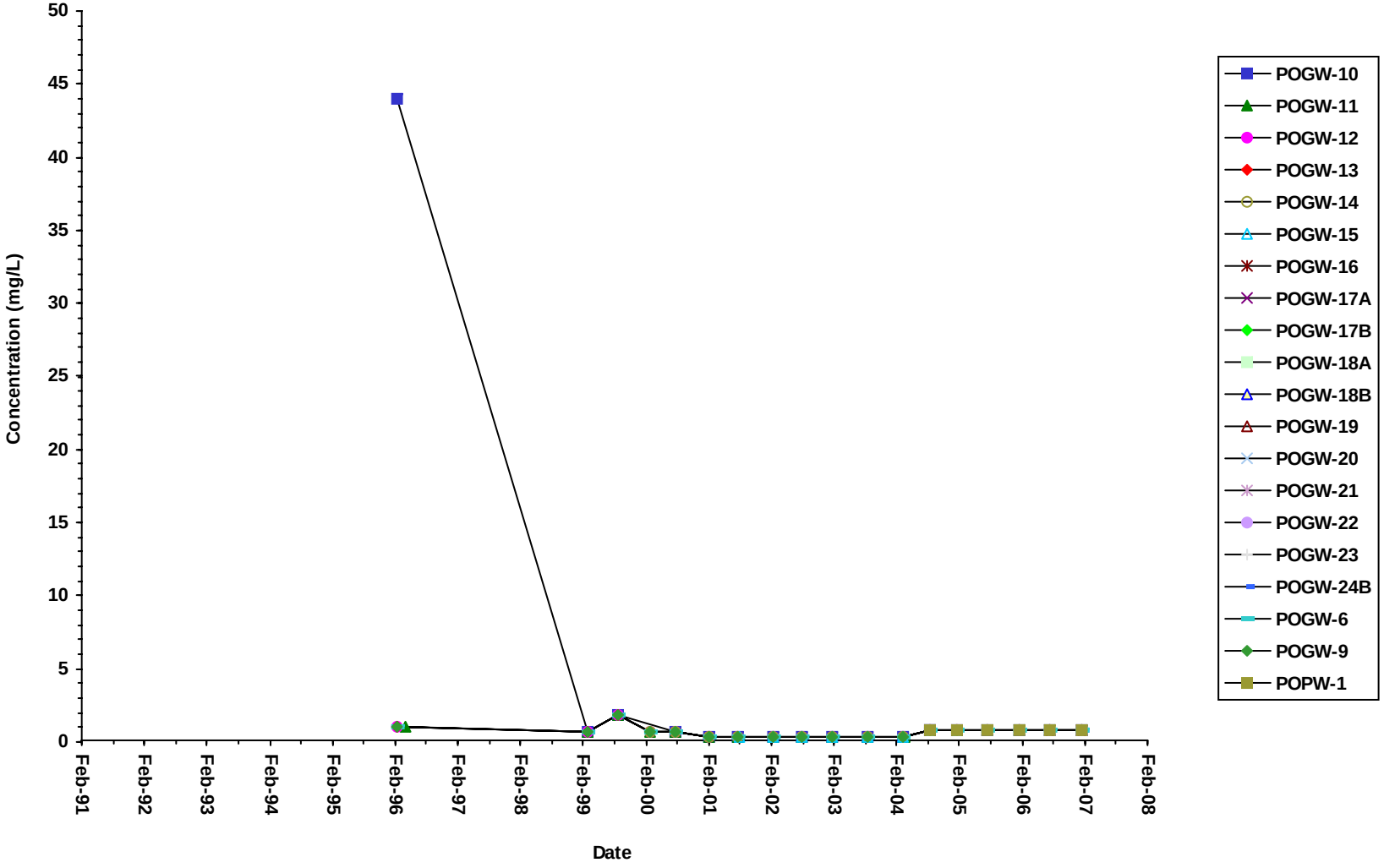
Time Series Plots

Groundwater Time Series Plots

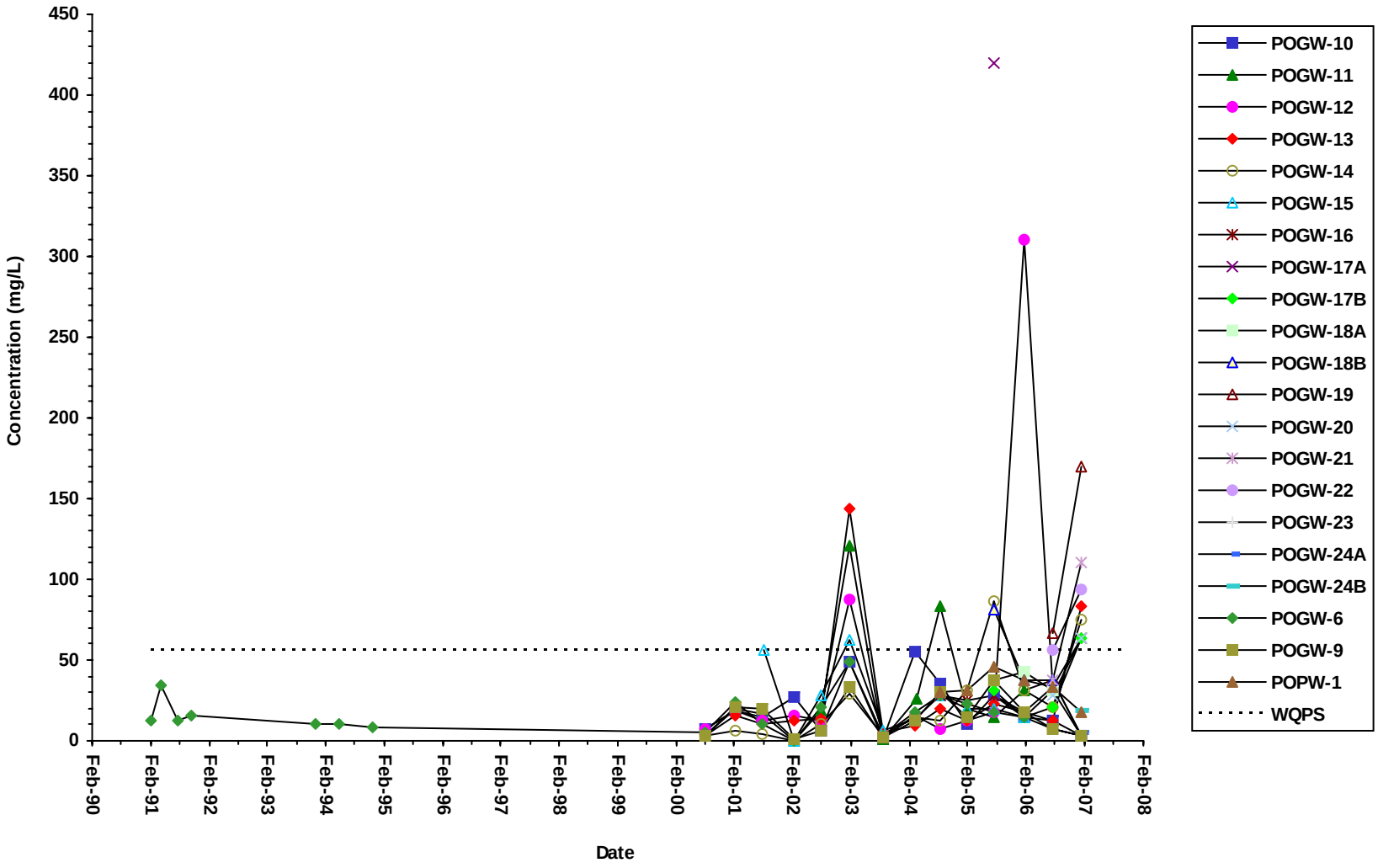
Time-Series Plot for Bicarbonate in Groundwater
Poway Landfill



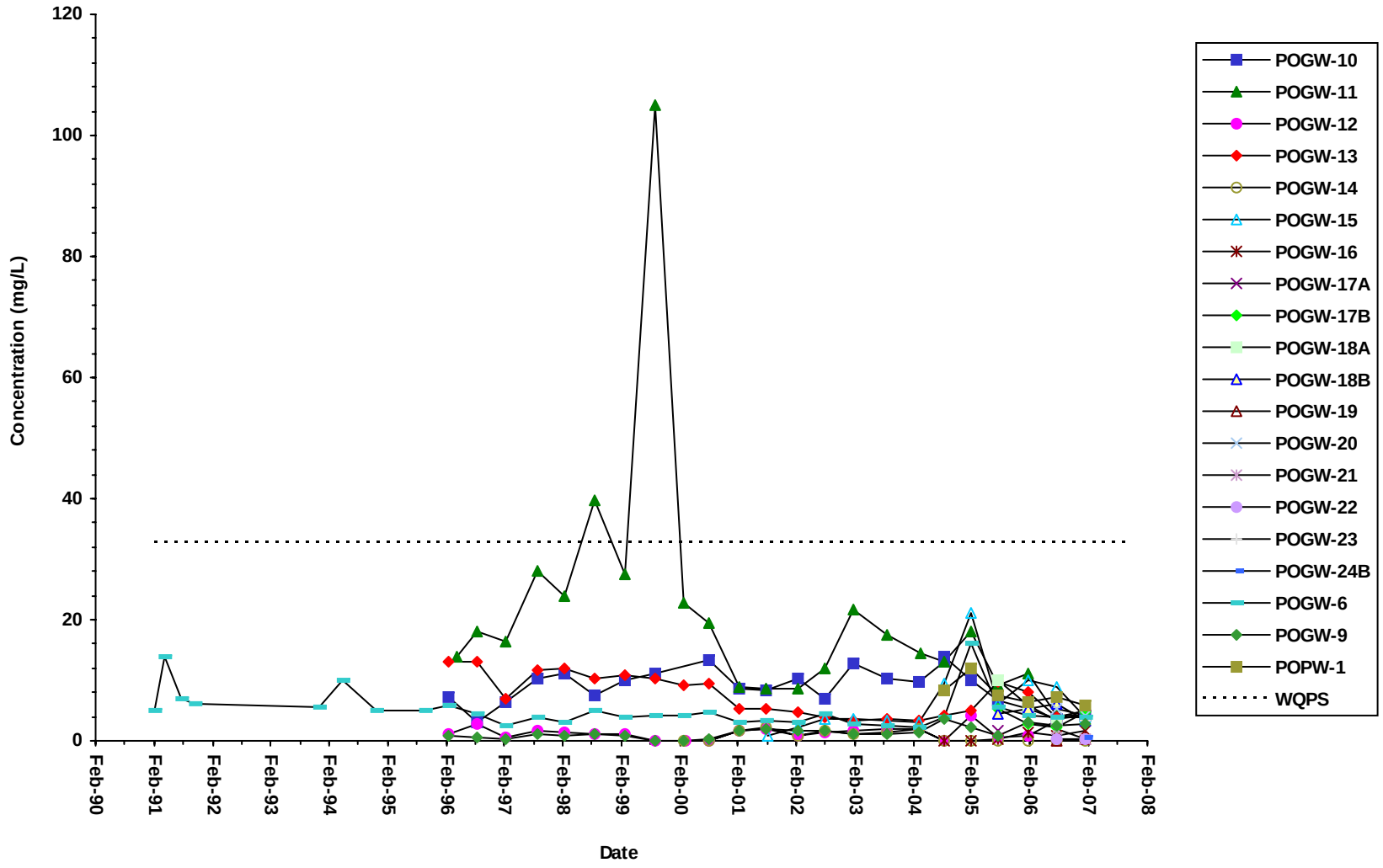
Time-Series Plot for Carbonate in Groundwater
Poway Landfill



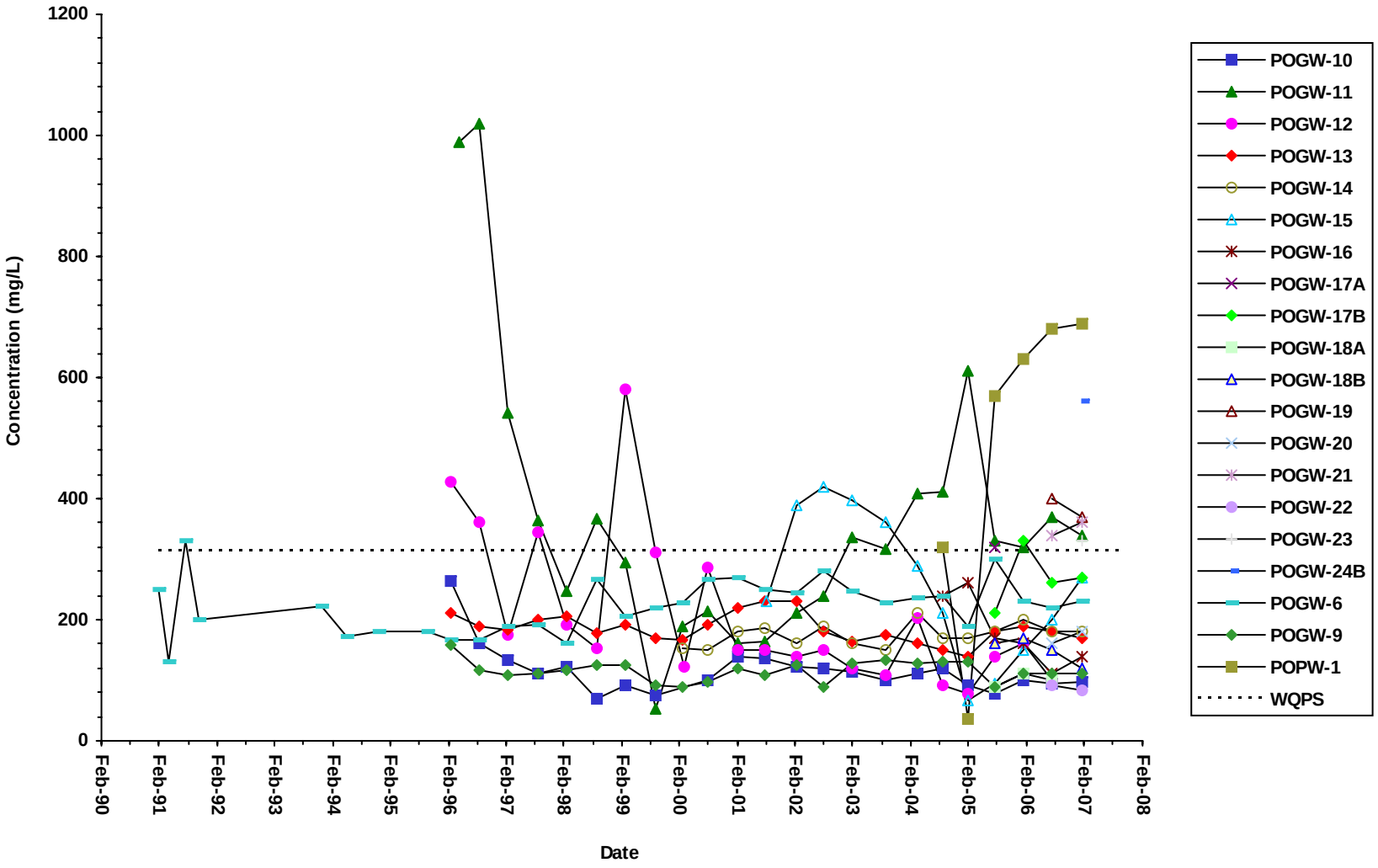
Time-Series Plot for Chemical Oxygen Demand in Groundwater
Poway Landfill



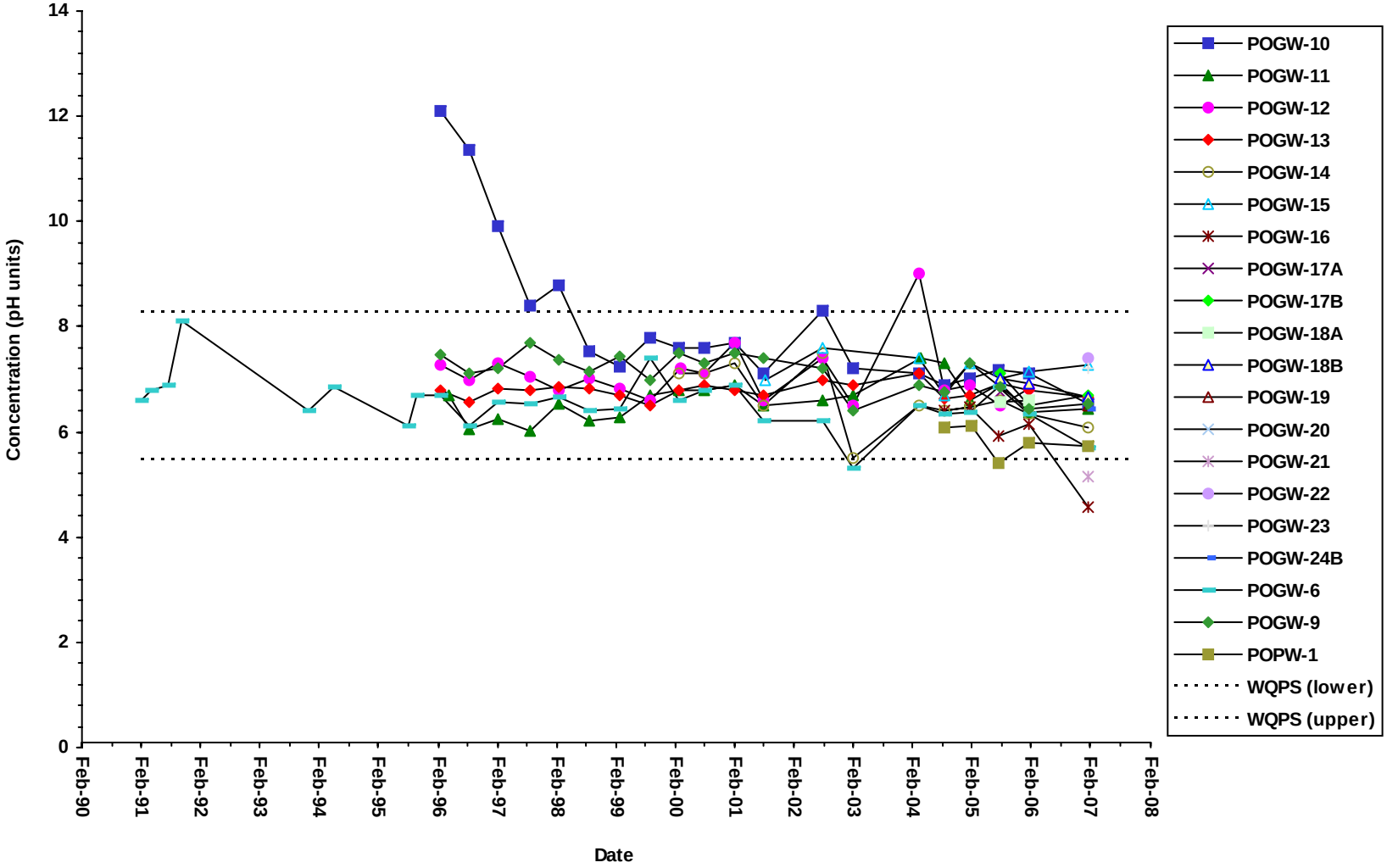
Time-Series Plot for Nitrate (as N) in Groundwater
Poway Landfill



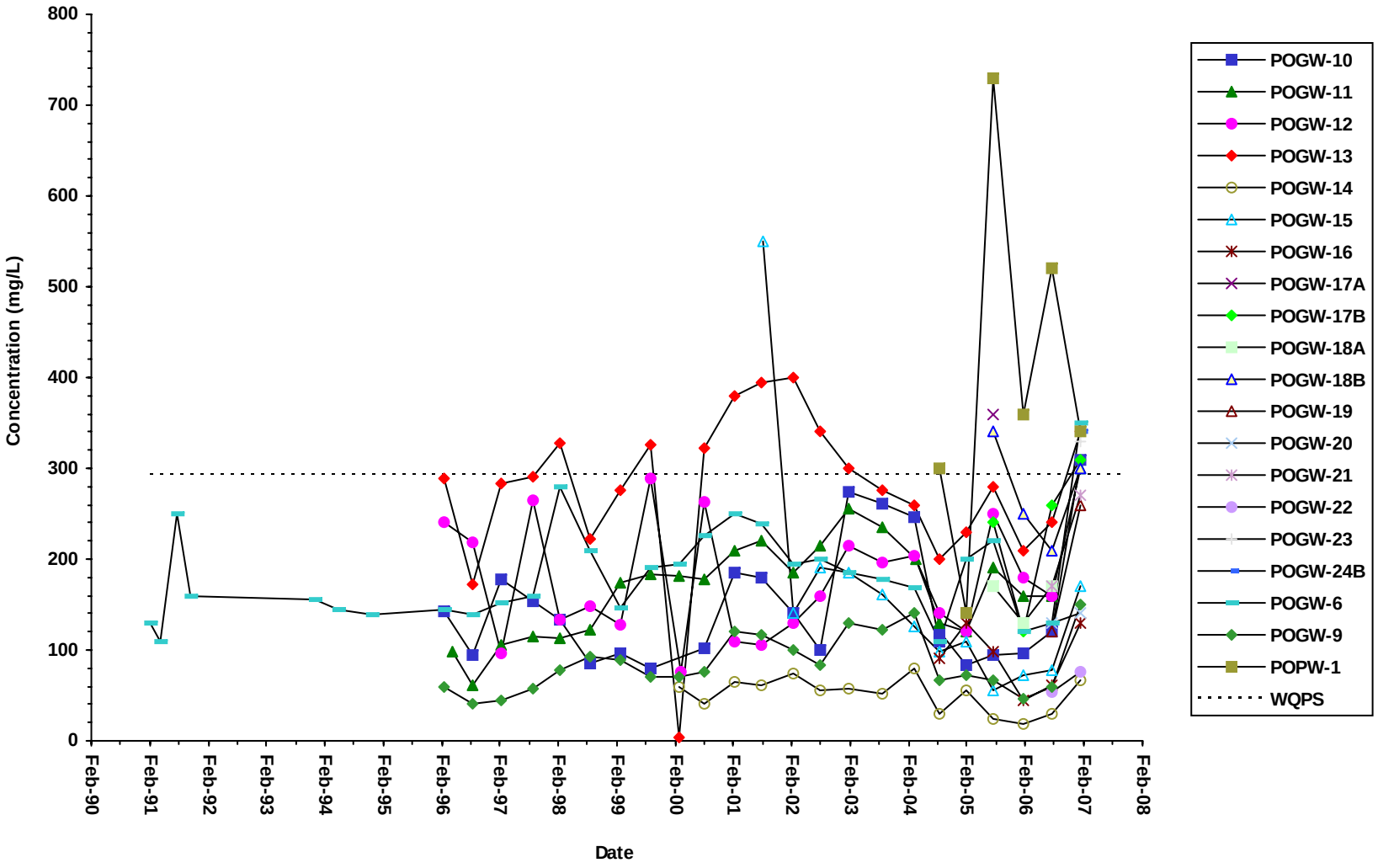
Time-Series Plot for Chloride in Groundwater
Poway Landfill



Time-Series Plot for pH in Groundwater
Poway Landfill

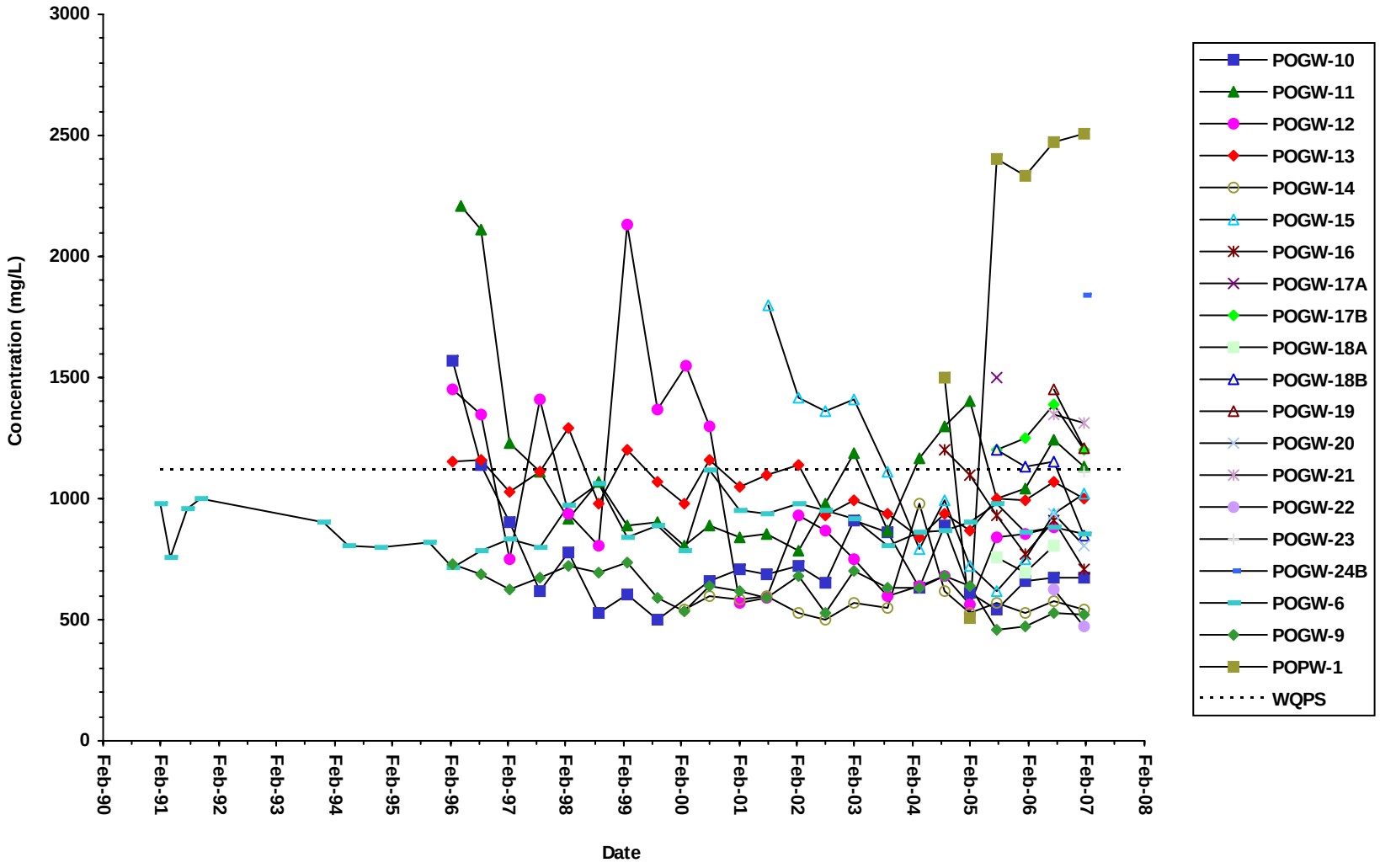


Time-Series Plot for Sulfate in Groundwater
Poway Landfill

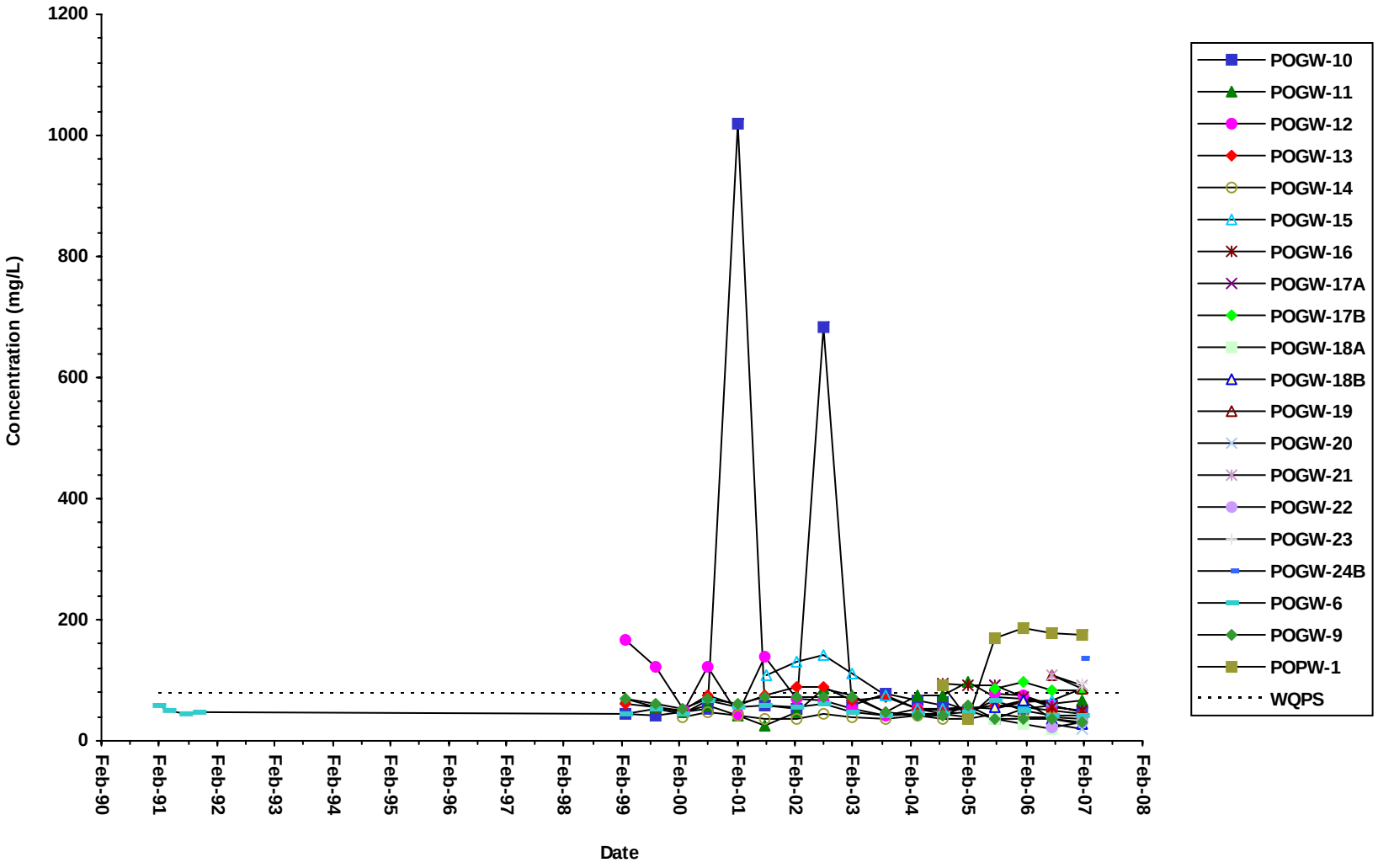


Time-Series Plot for Total Dissolved Solids in Groundwater
Poway Landfill

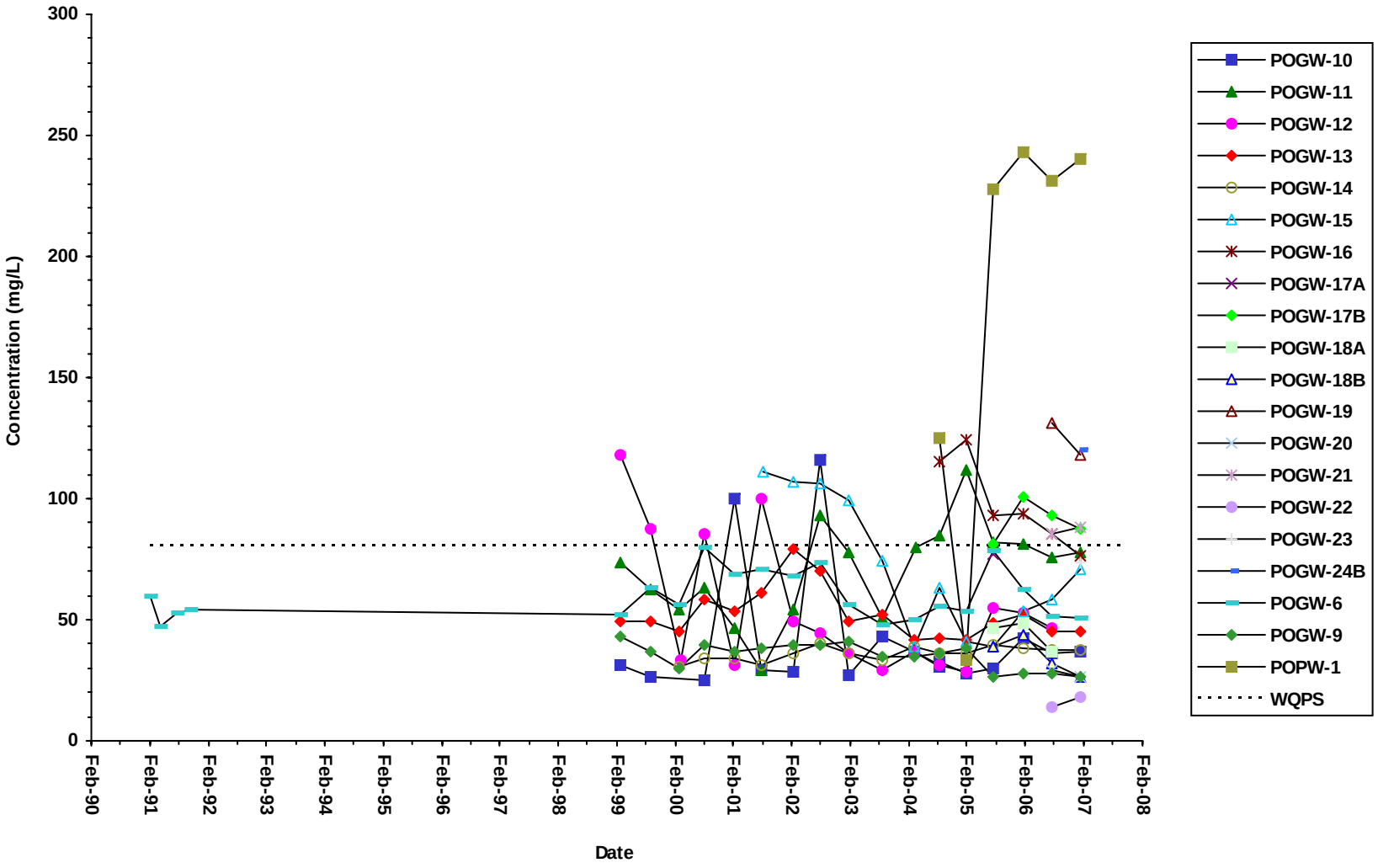
Geosyntec consultants



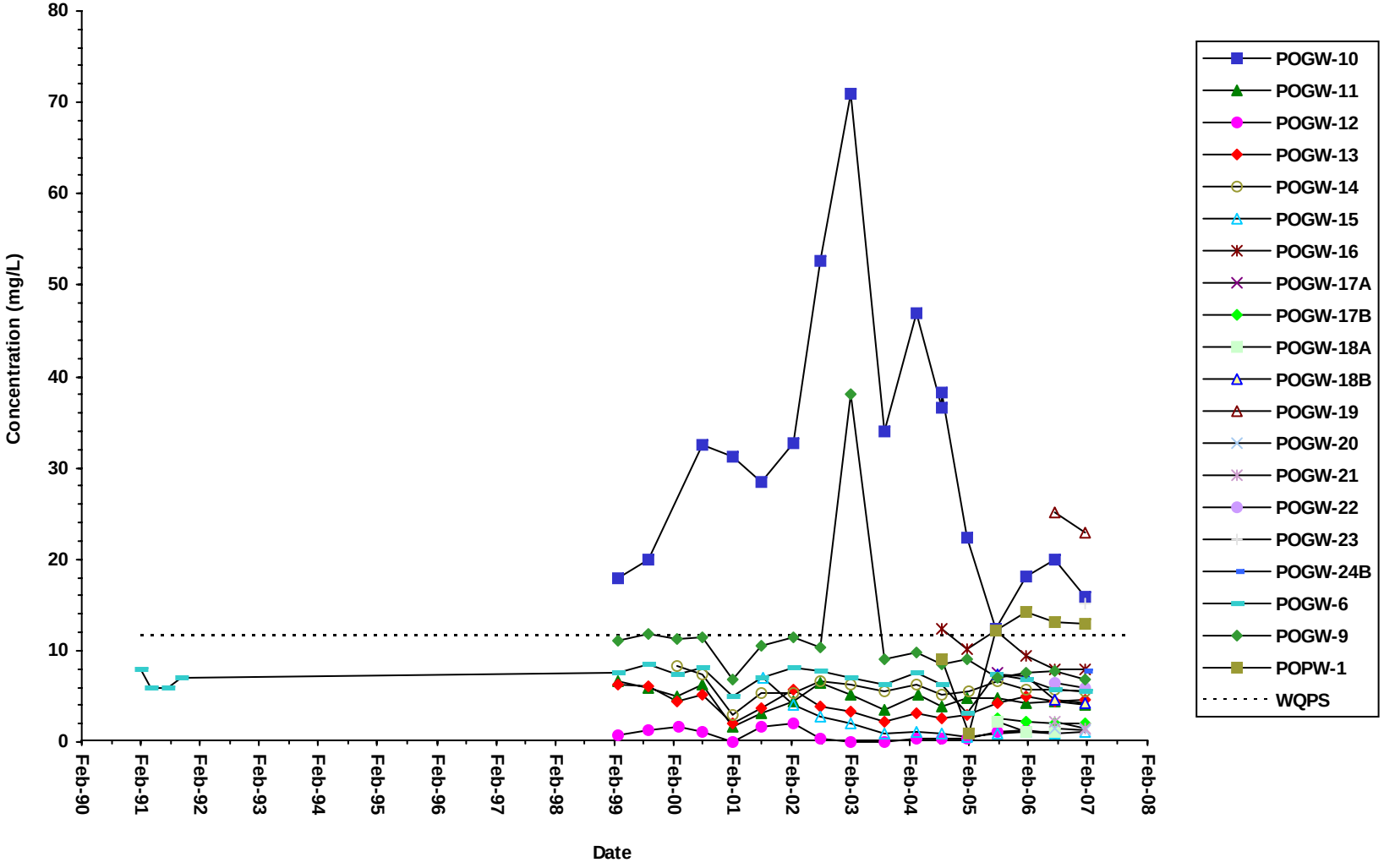
Time-Series Plot for Dissolved Calcium in Groundwater
Poway Landfill



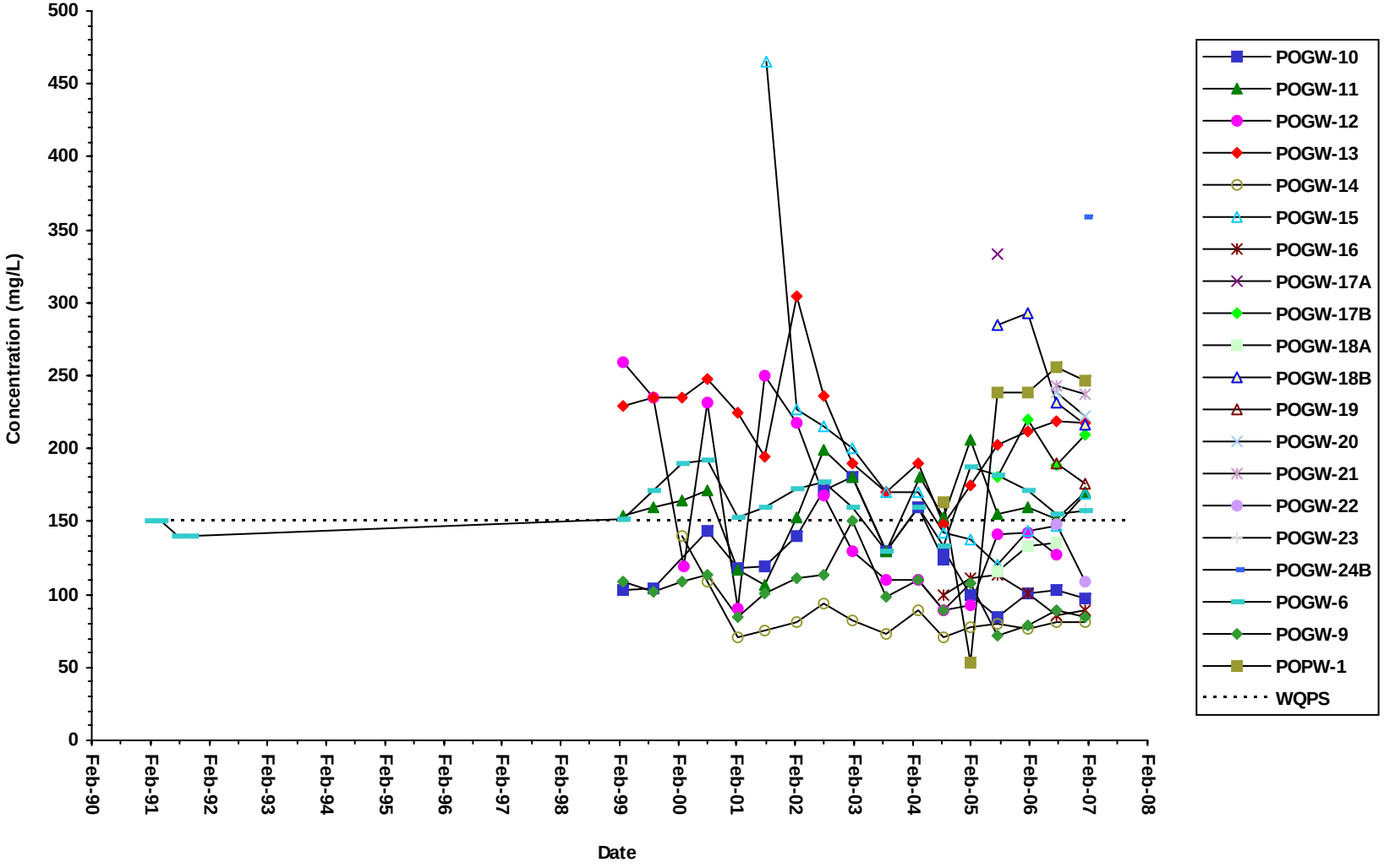
Time-Series Plot for Dissolved Magnesium in Groundwater
Poway Landfill



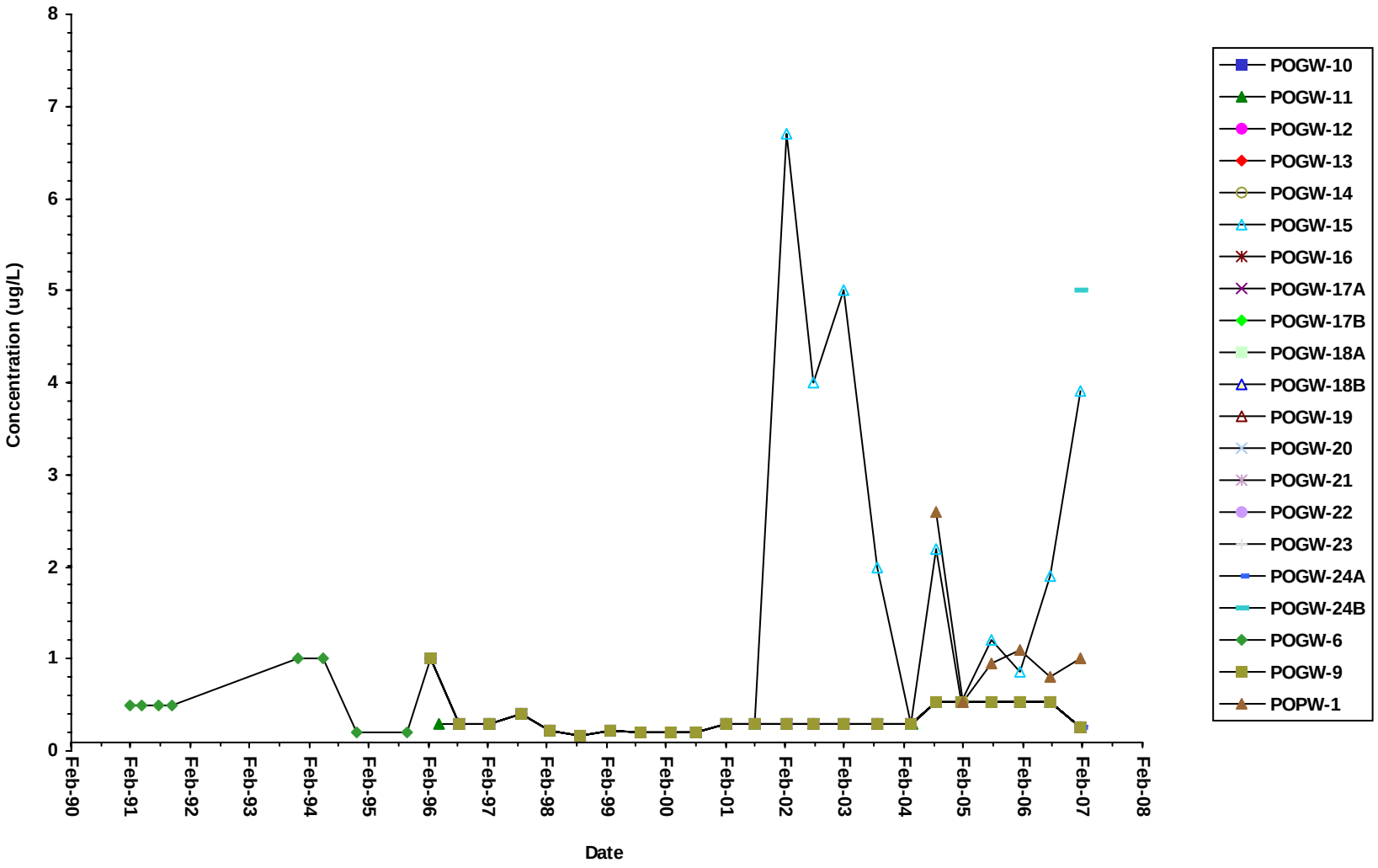
Time-Series Plot for Dissolved Potassium in Groundwater
Poway Landfill



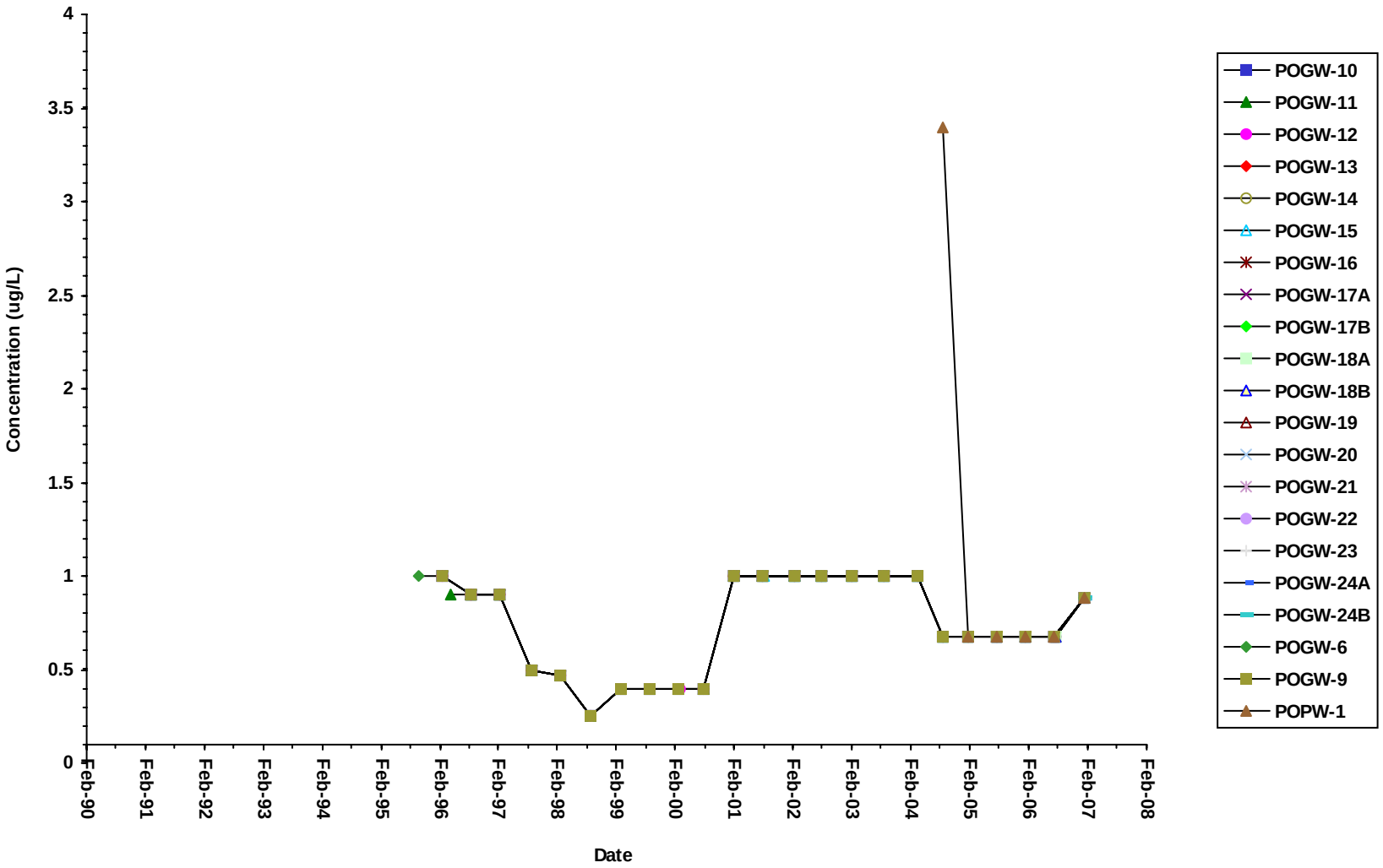
Time-Series Plot for Dissolved Sodium in Groundwater
Poway Landfill



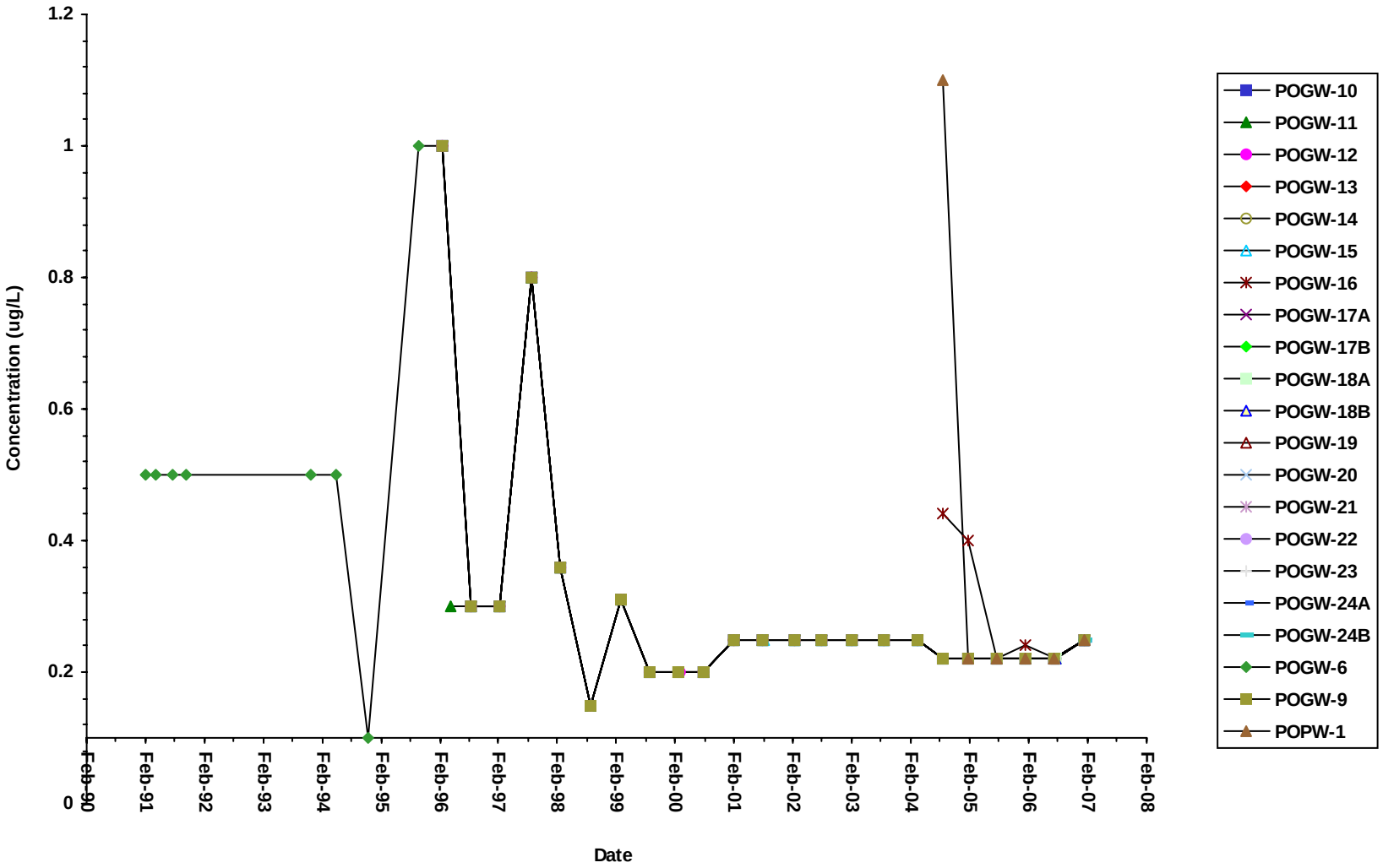
Time-Series Plot for 1,1-Dichloroethane in Groundwater
Poway Landfill



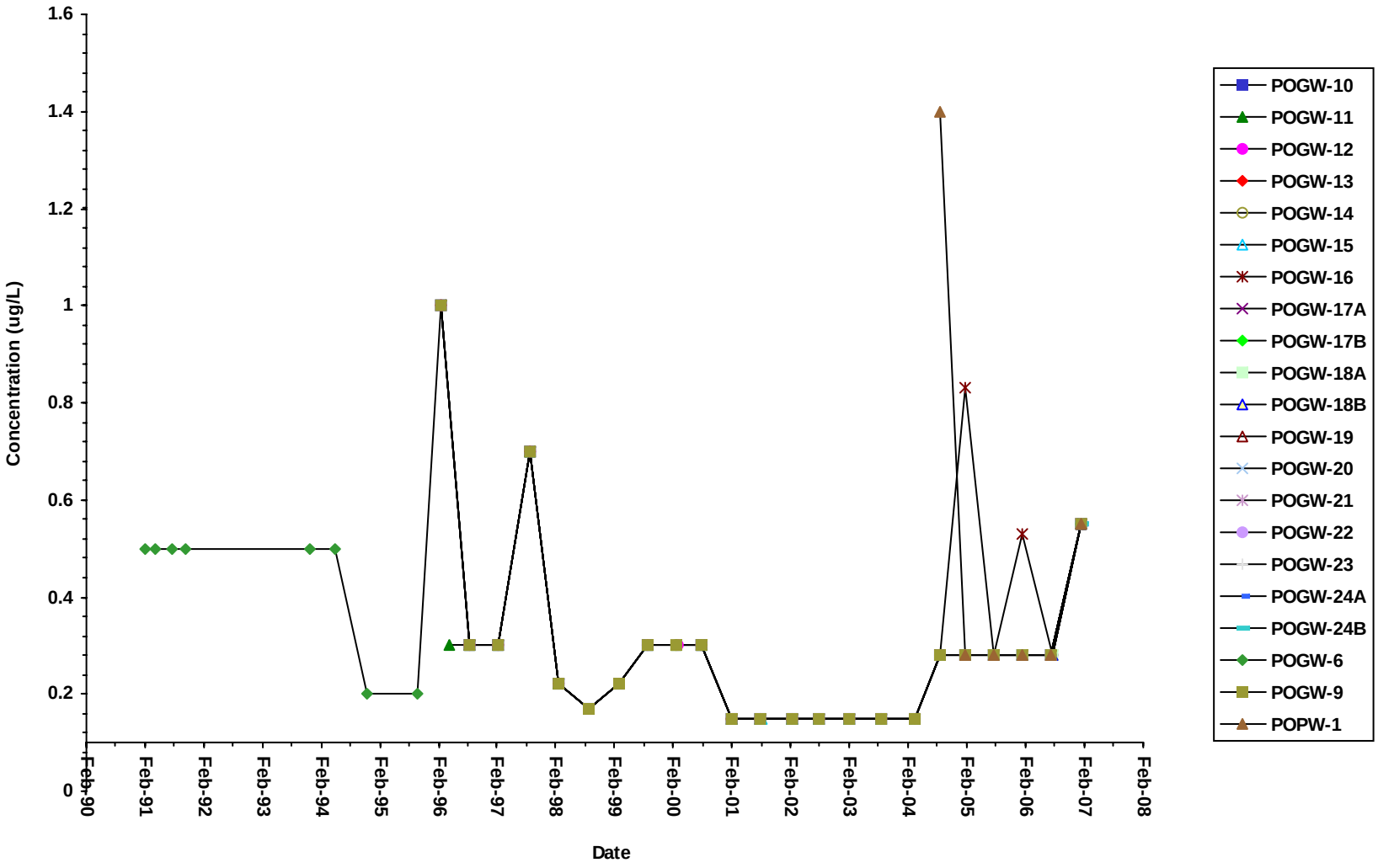
Time-Series Plot for 1,1-Dichloroethene in Groundwater
Poway Landfill



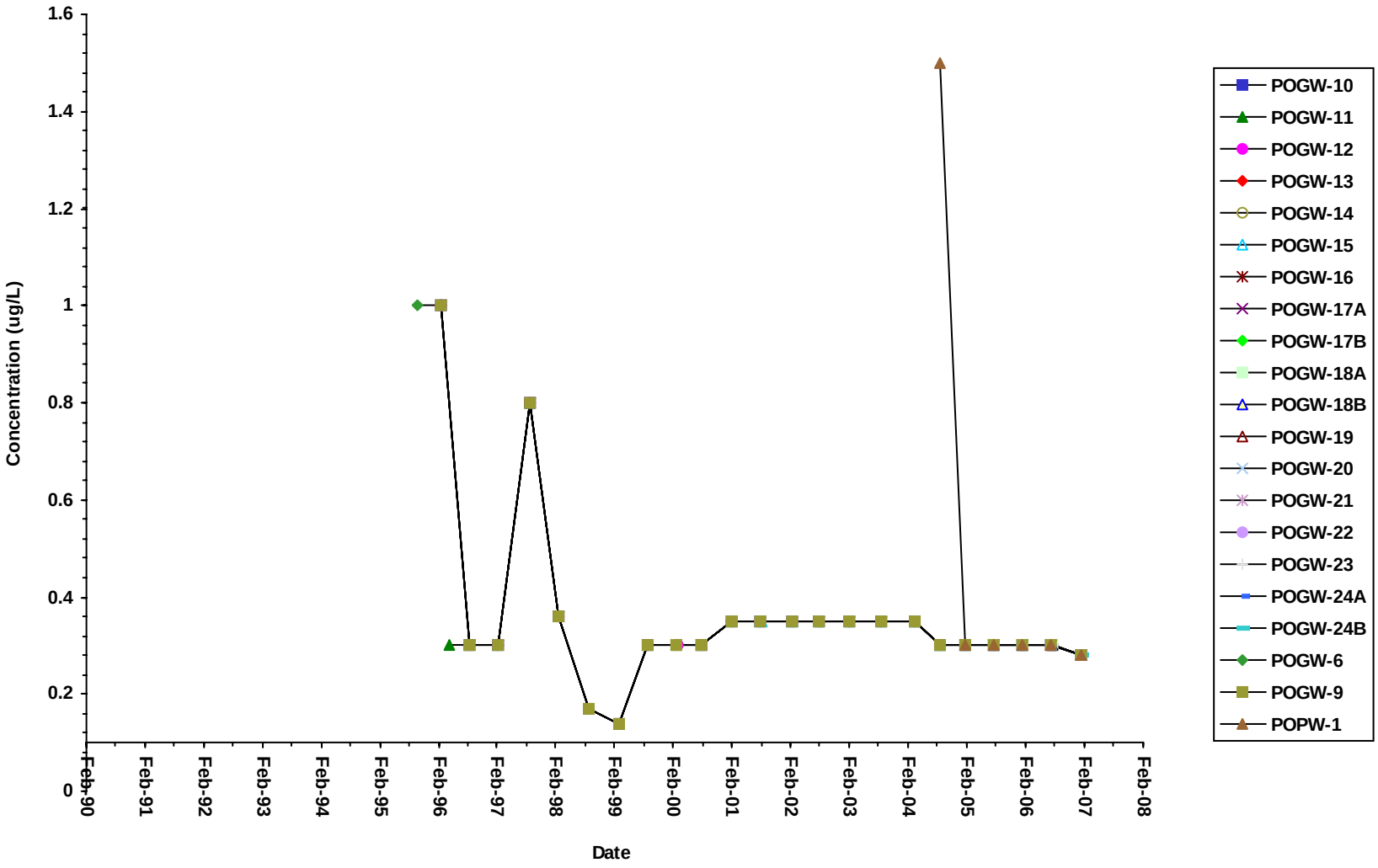
Time-Series Plot for 1,2-Dichloroethane in Groundwater
Poway Landfill



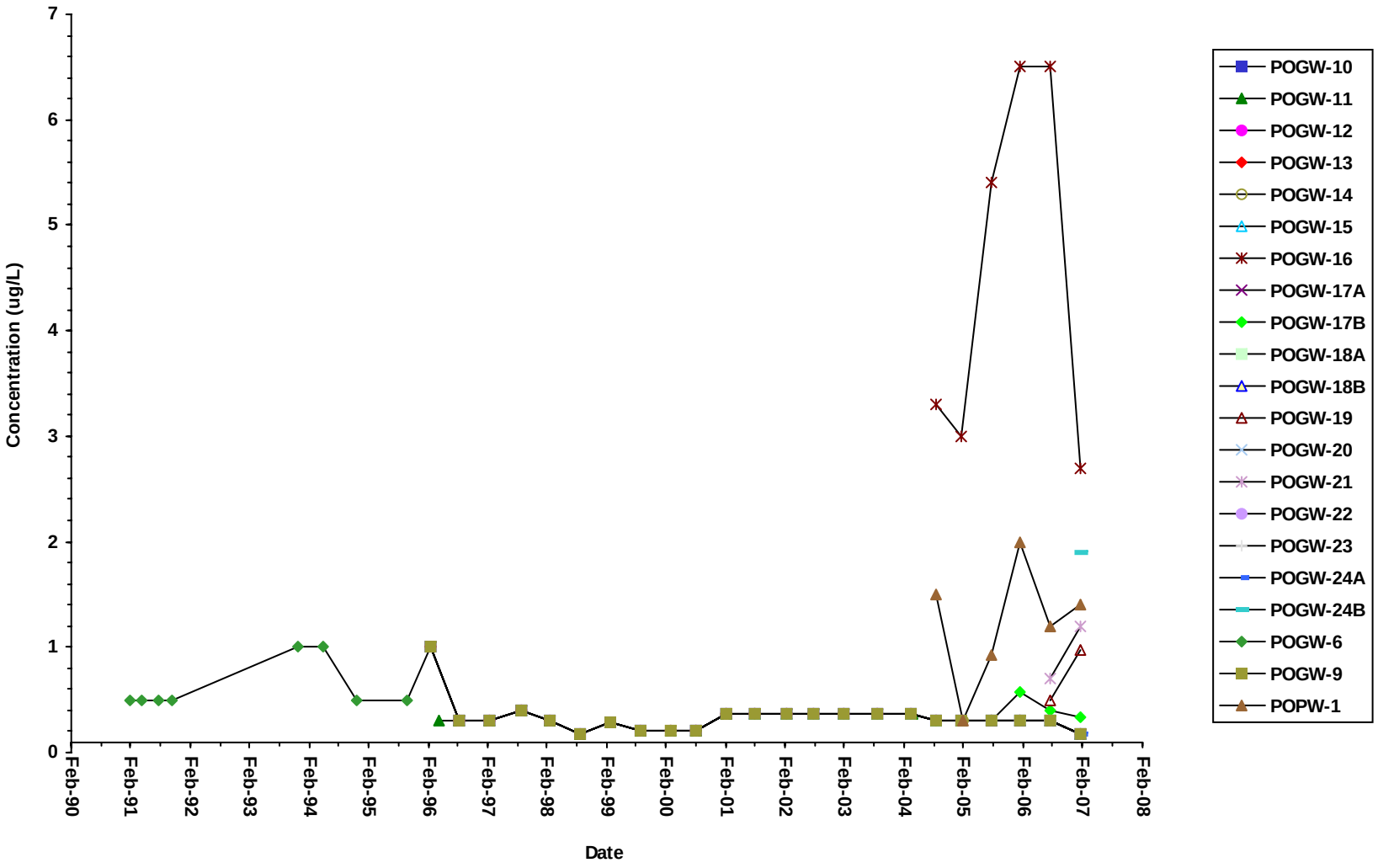
Time-Series Plot for 1,2-Dichloropropane in Groundwater
Poway Landfill



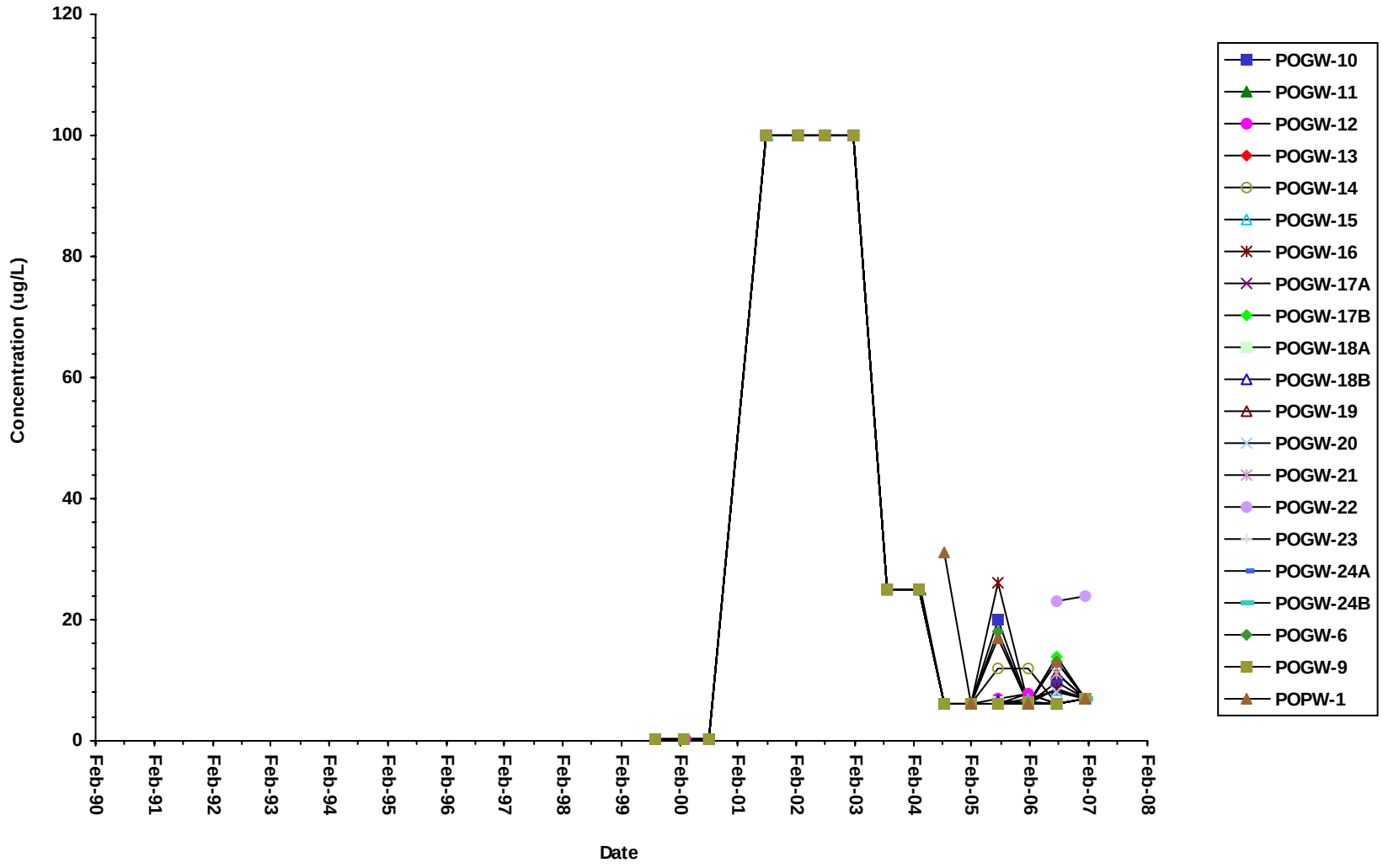
Time-Series Plot for 1,3-Dichloropropane in Groundwater
Poway Landfill



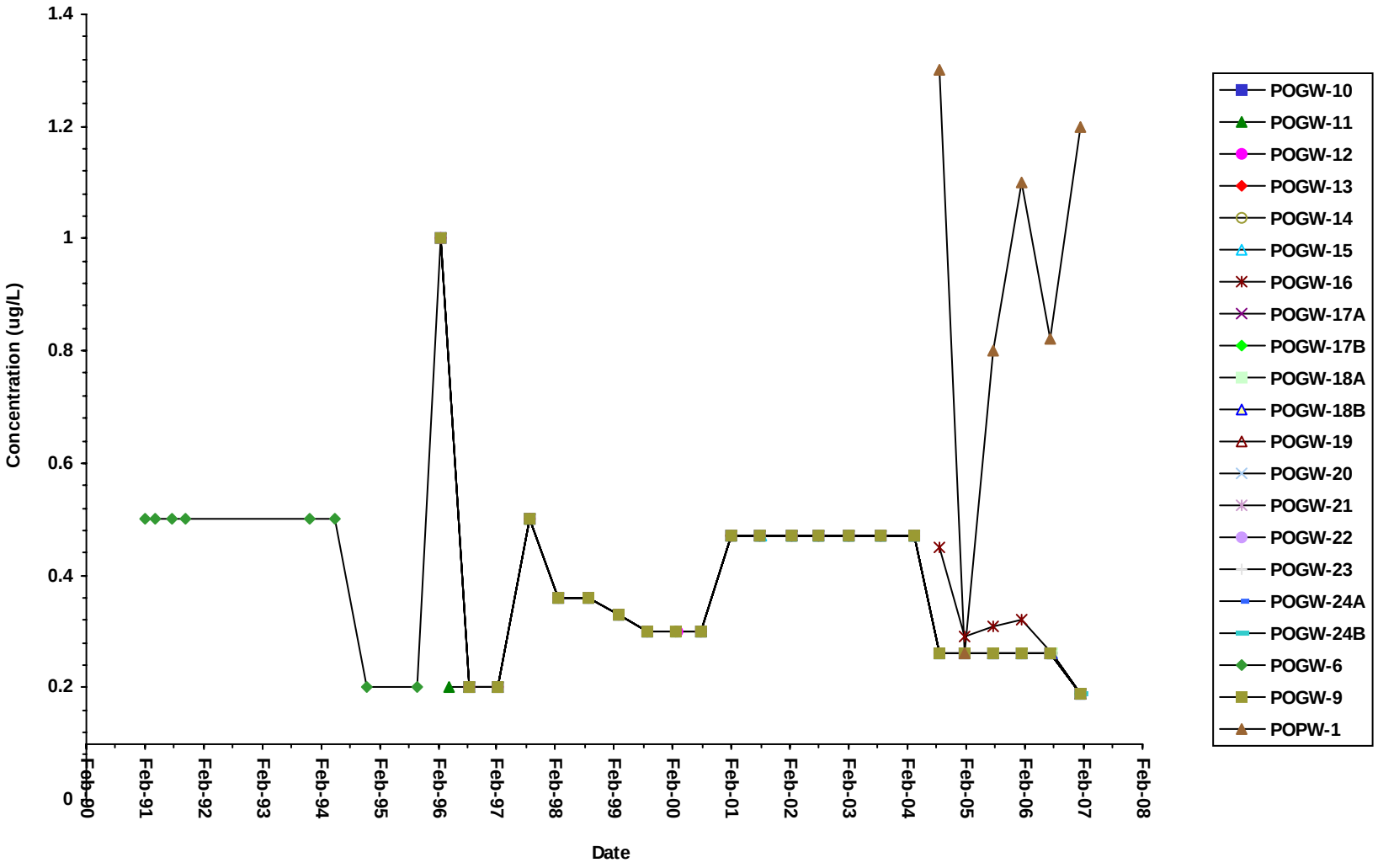
Time-Series Plot for 1,4-Dichlorobenzene in Groundwater
Poway Landfill



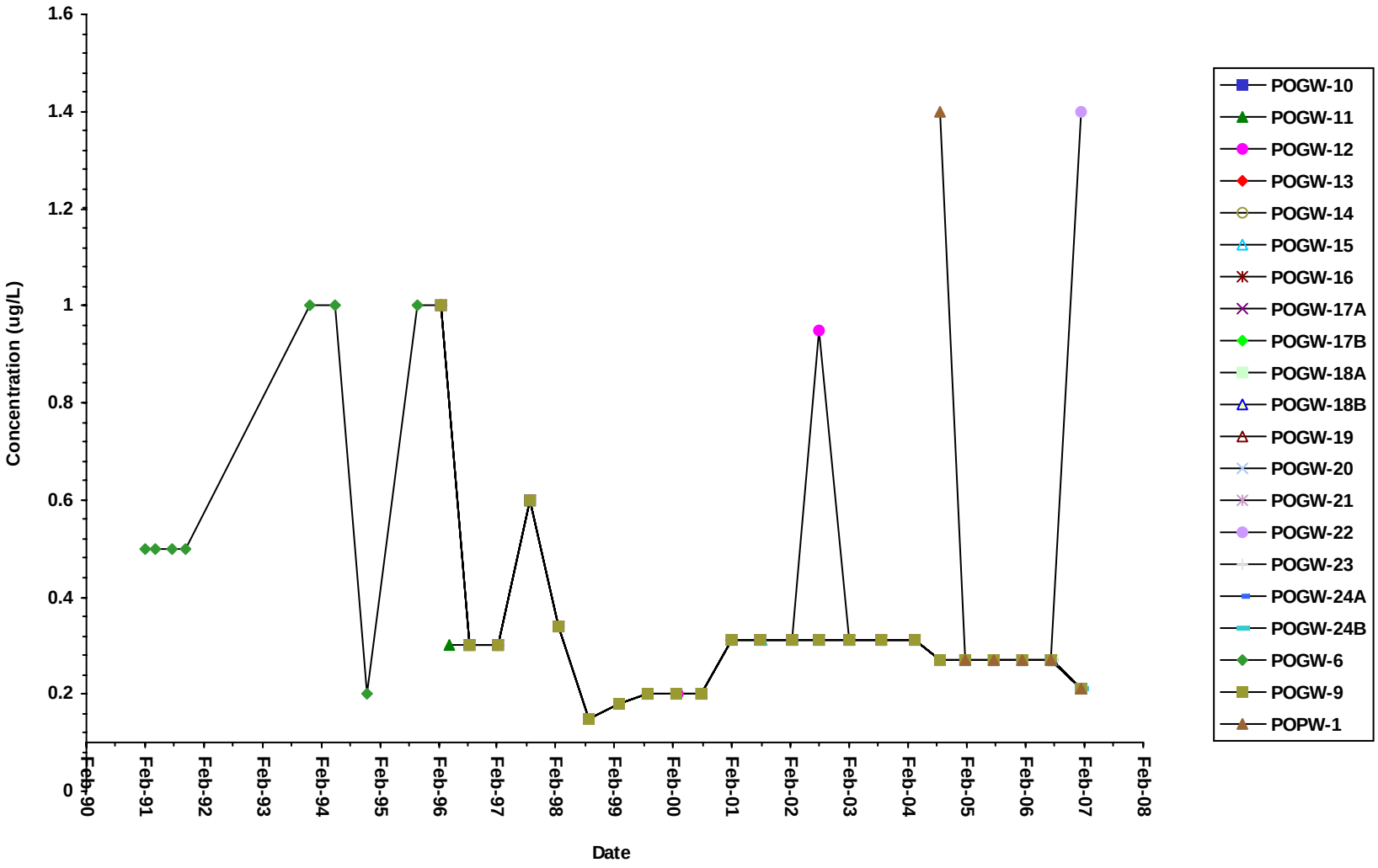
Time-Series Plot for Acetone in Groundwater
Poway Landfill



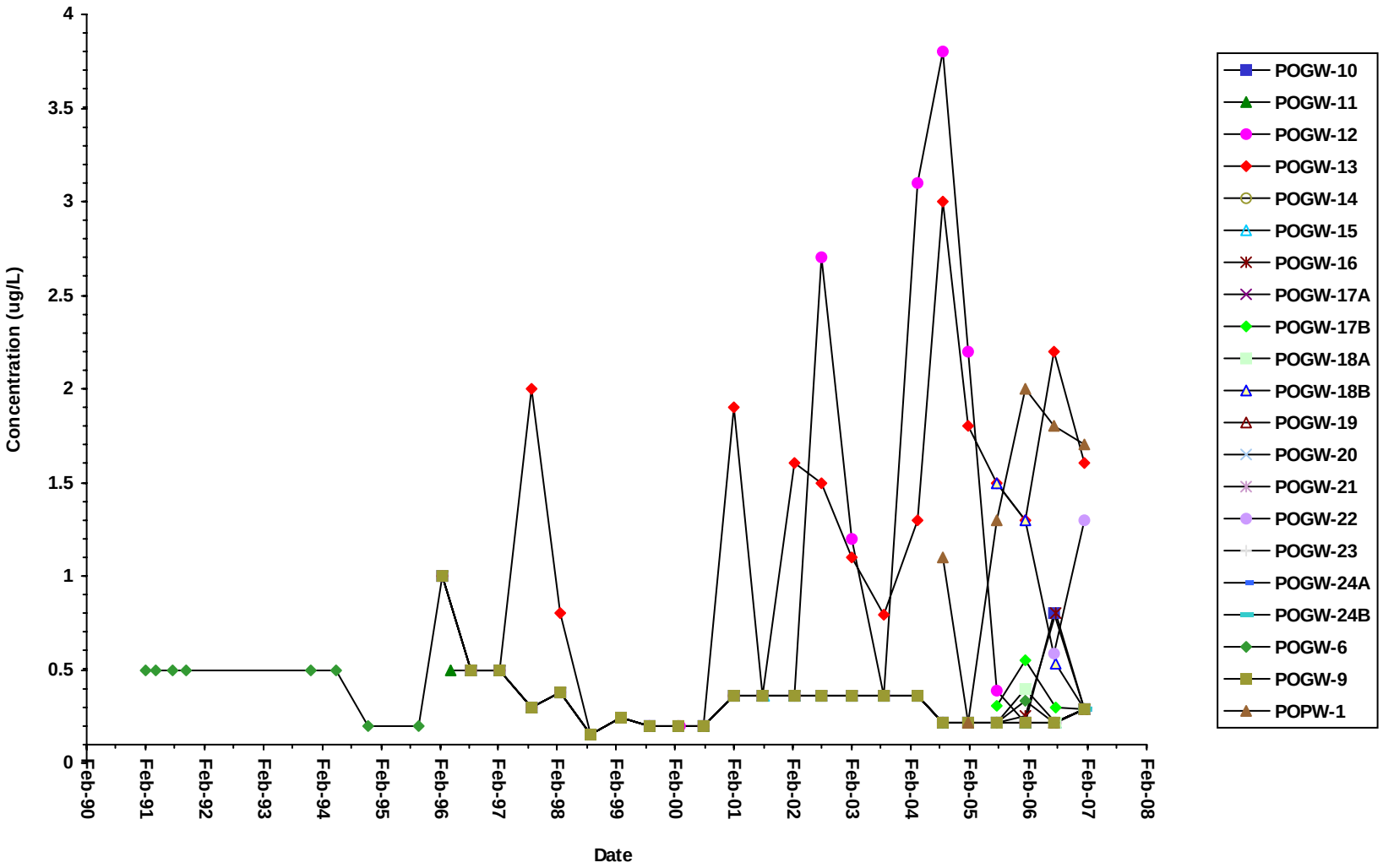
Time-Series Plot for Benzene in Groundwater
Poway Landfill



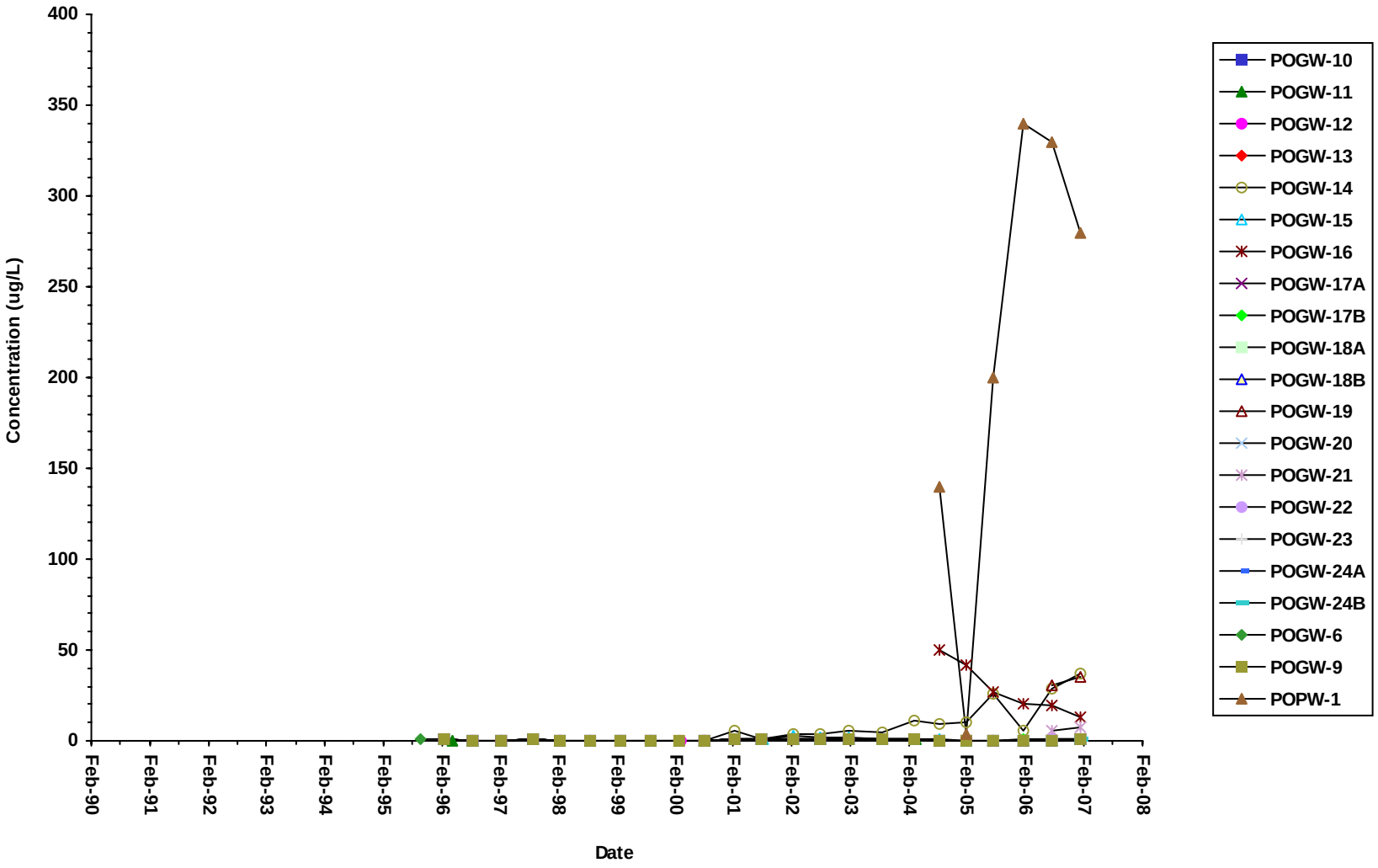
Time-Series Plot for Bromodichloromethane in Groundwater
Poway Landfill



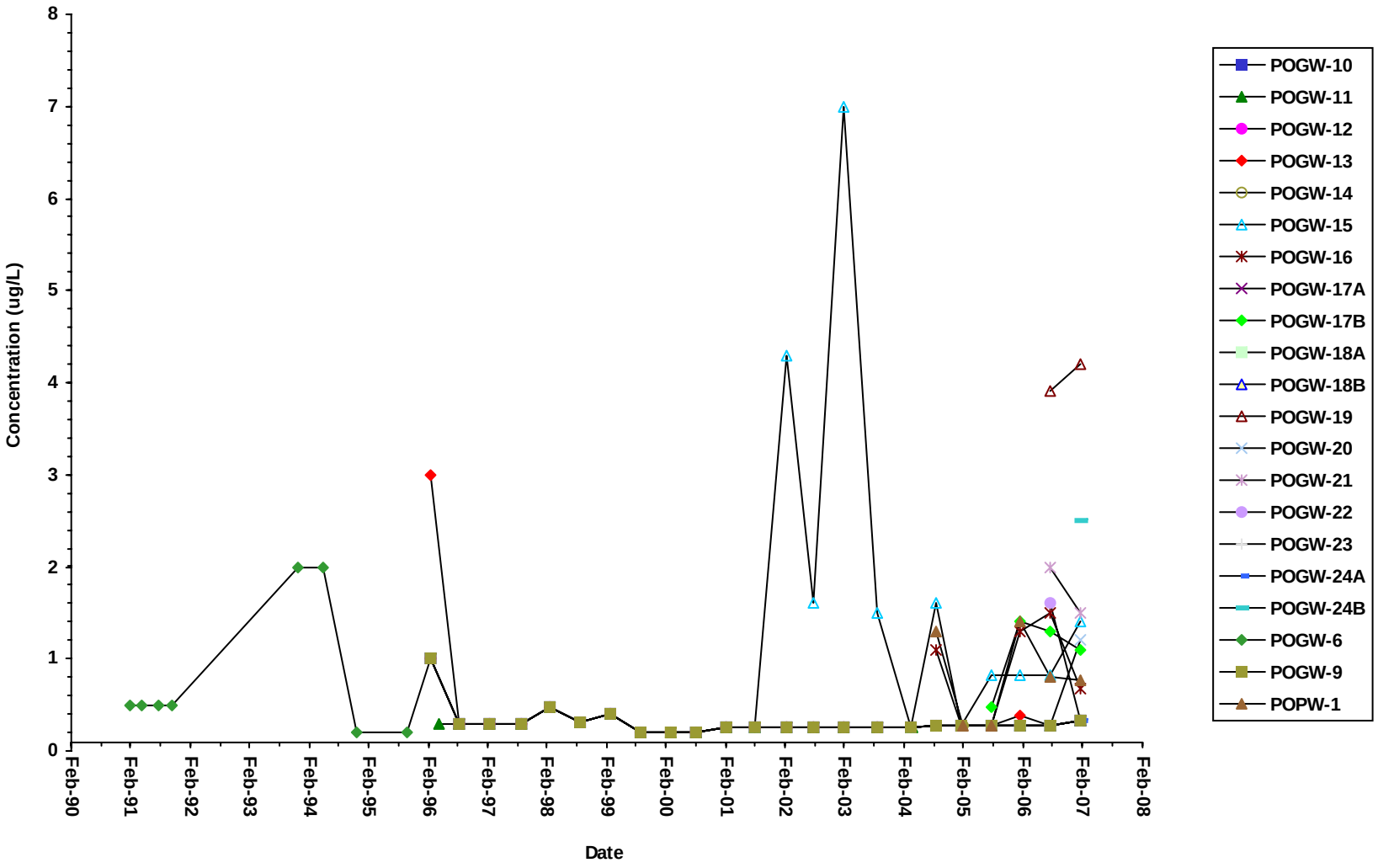
Time-Series Plot for Chloroform in Groundwater
Poway Landfill



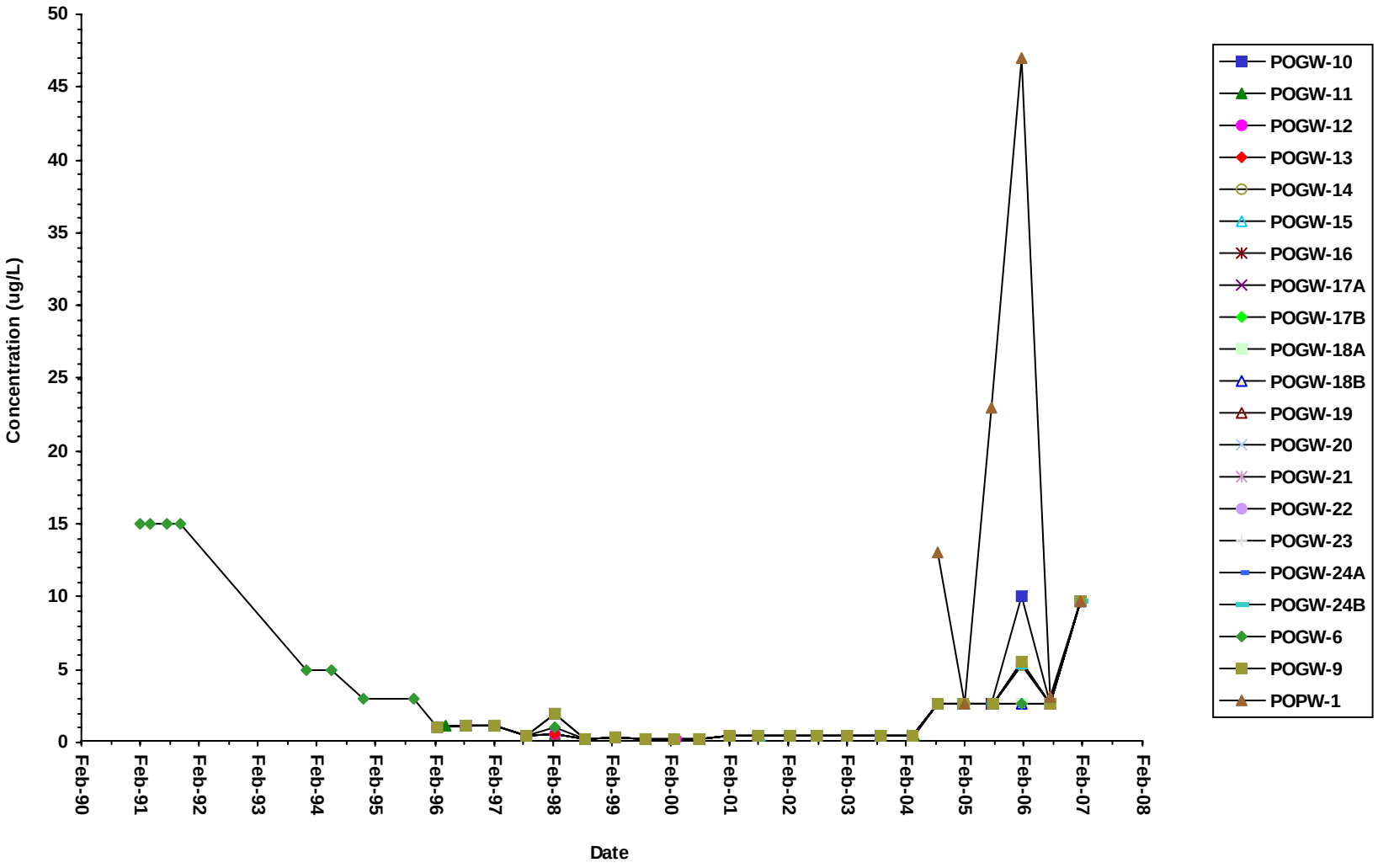
Time-Series Plot for cis-1,2-Dichloroethene in Groundwater
Poway Landfill



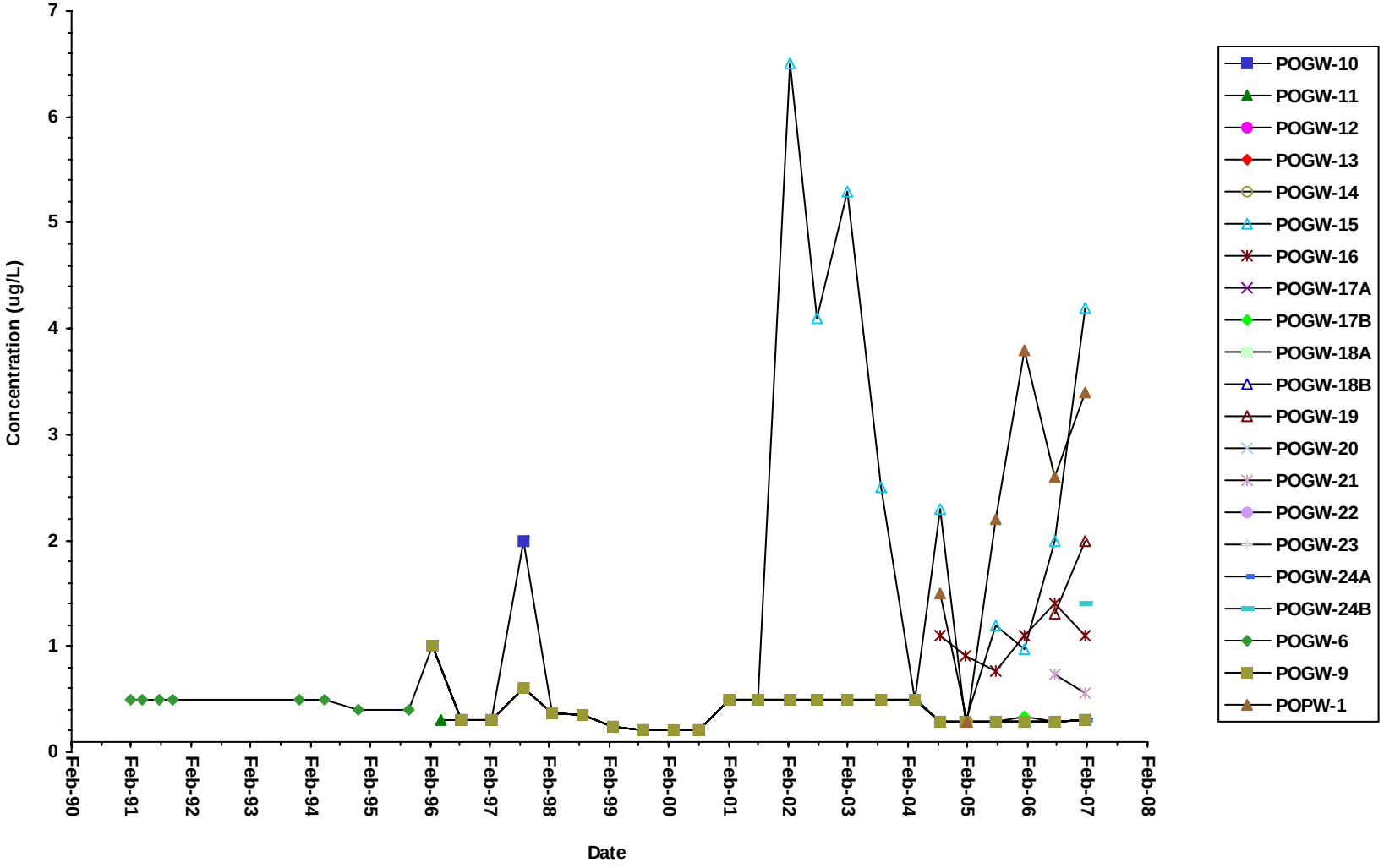
Time-Series Plot for Dichlorodifluoromethane in Groundwater
Poway Landfill



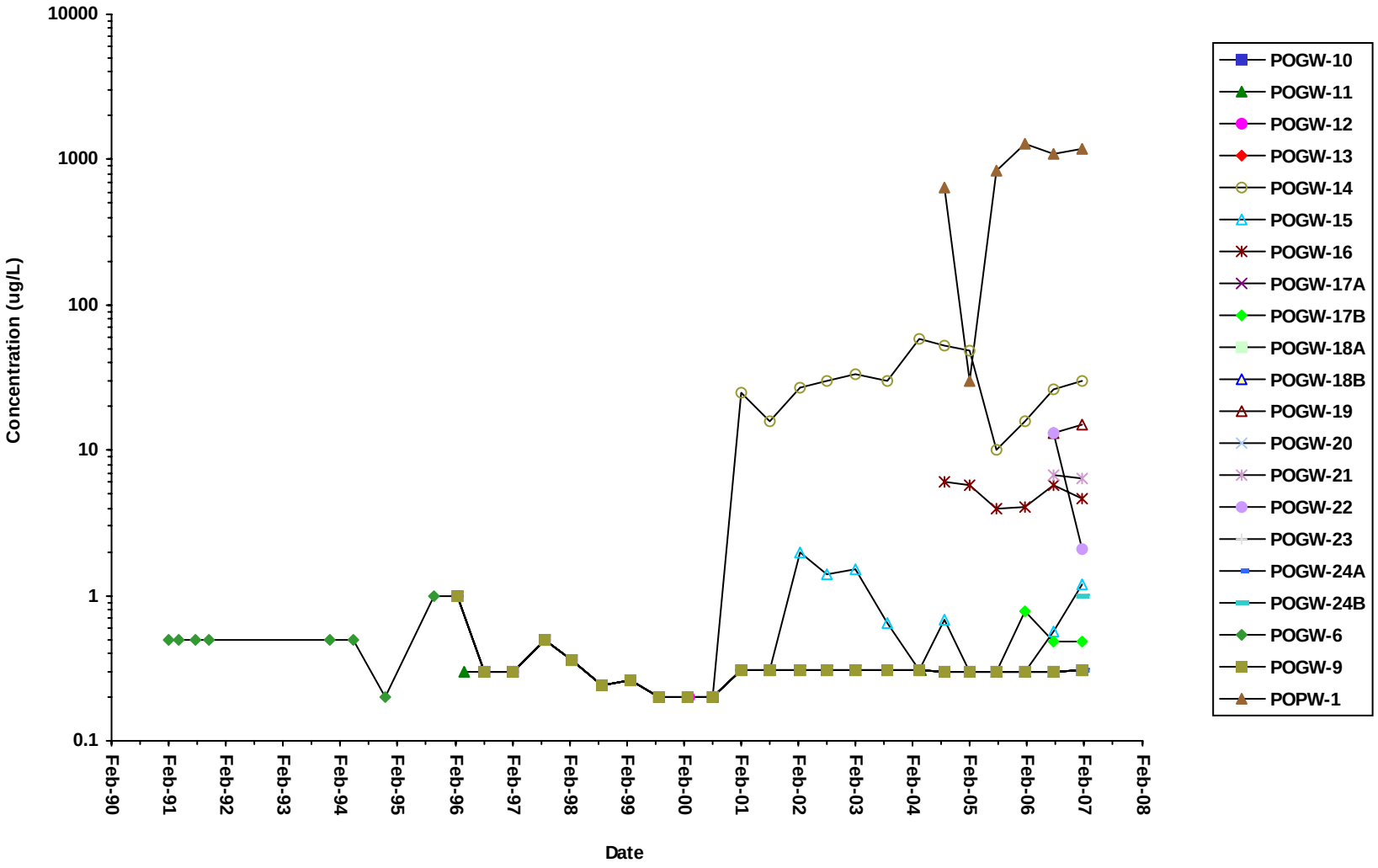
Time-Series Plot for Methylene Chloride in Groundwater
Poway Landfill



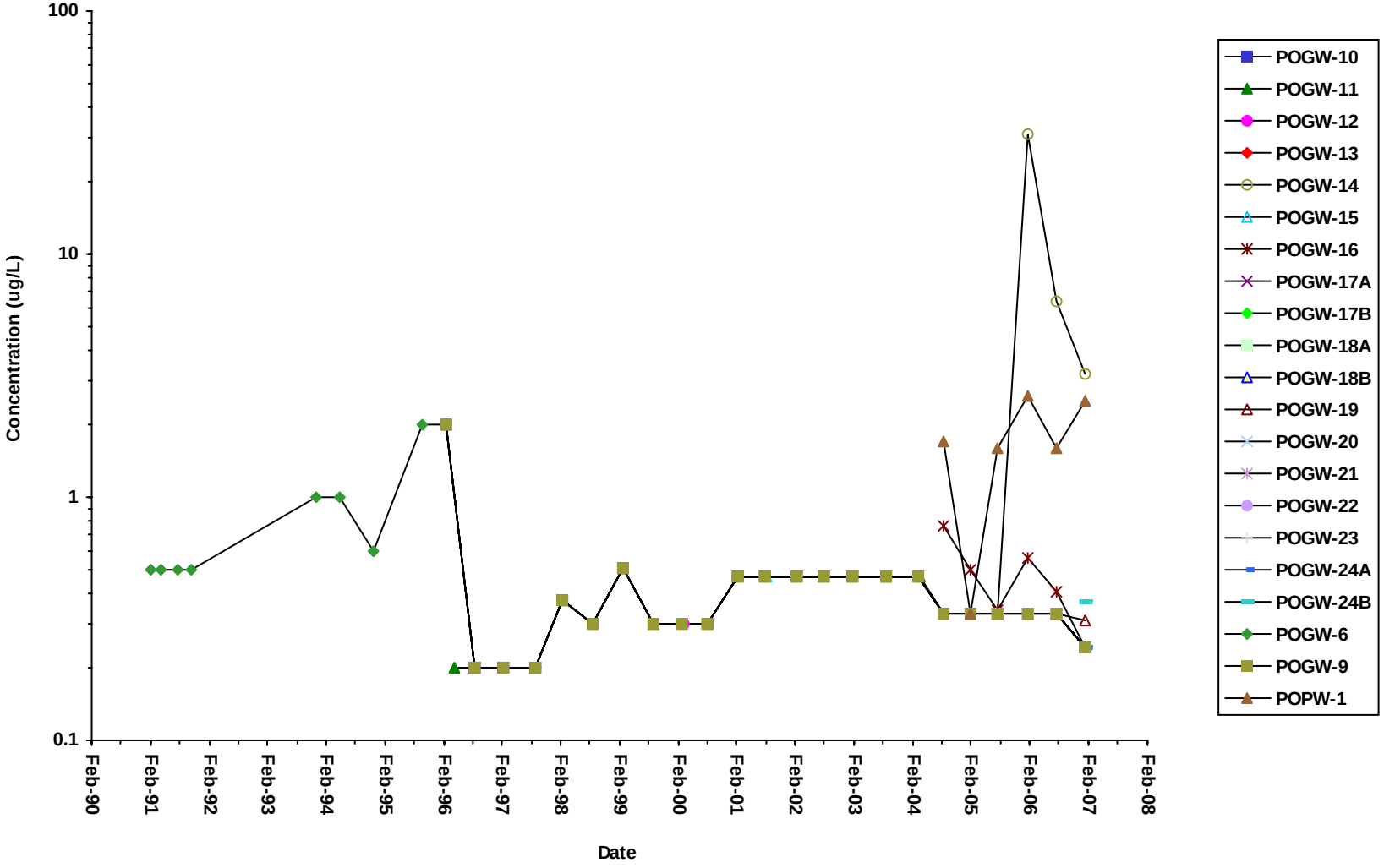
Time-Series Plot for Tetrachloroethene in Groundwater
Poway Landfill



Time-Series Plot for Trichloroethene in Groundwater
Poway Landfill



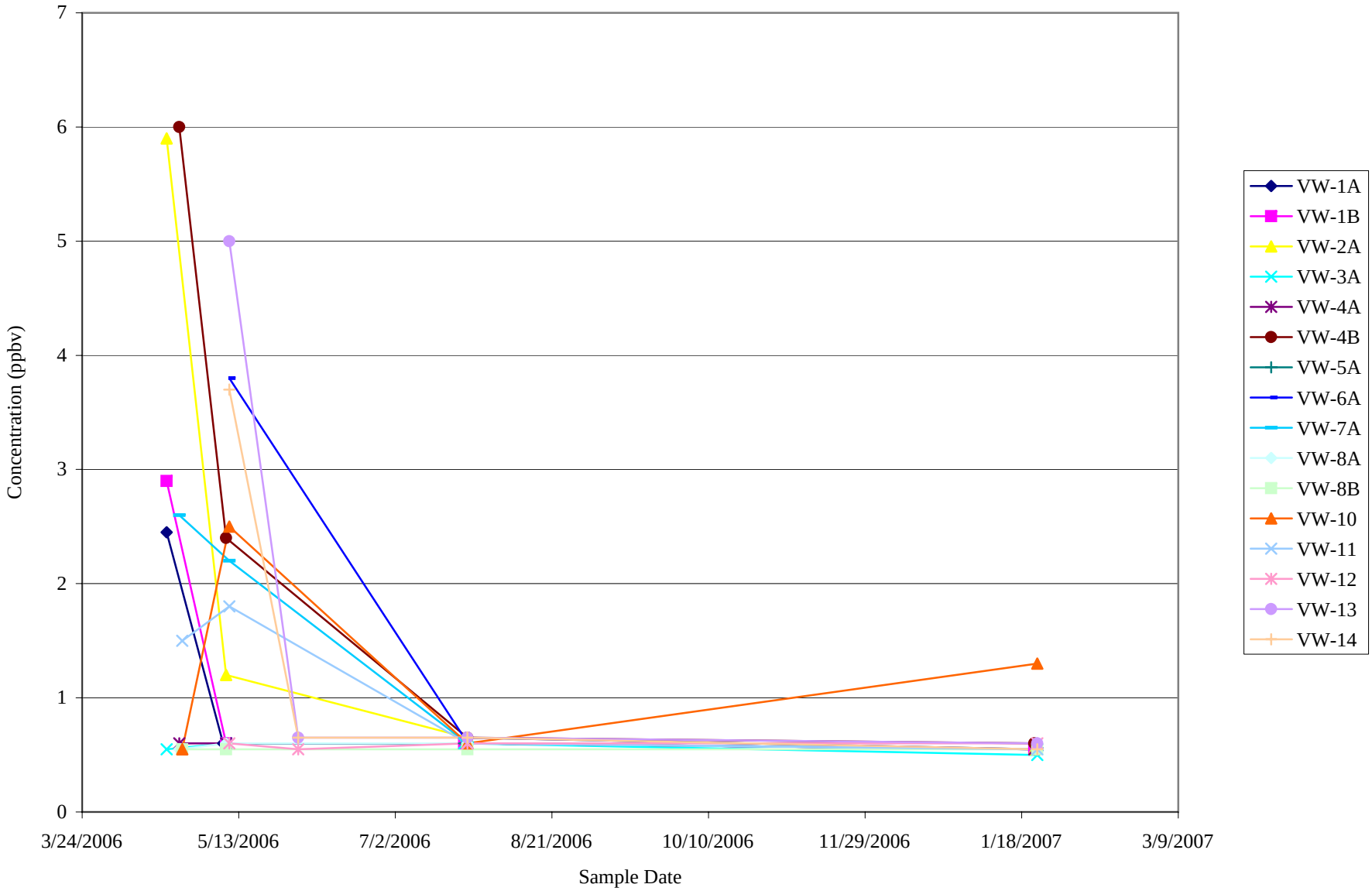
Time-Series Plot for Vinyl Chloride in Groundwater
Poway Landfill



Soil Vapor Time Series Plots

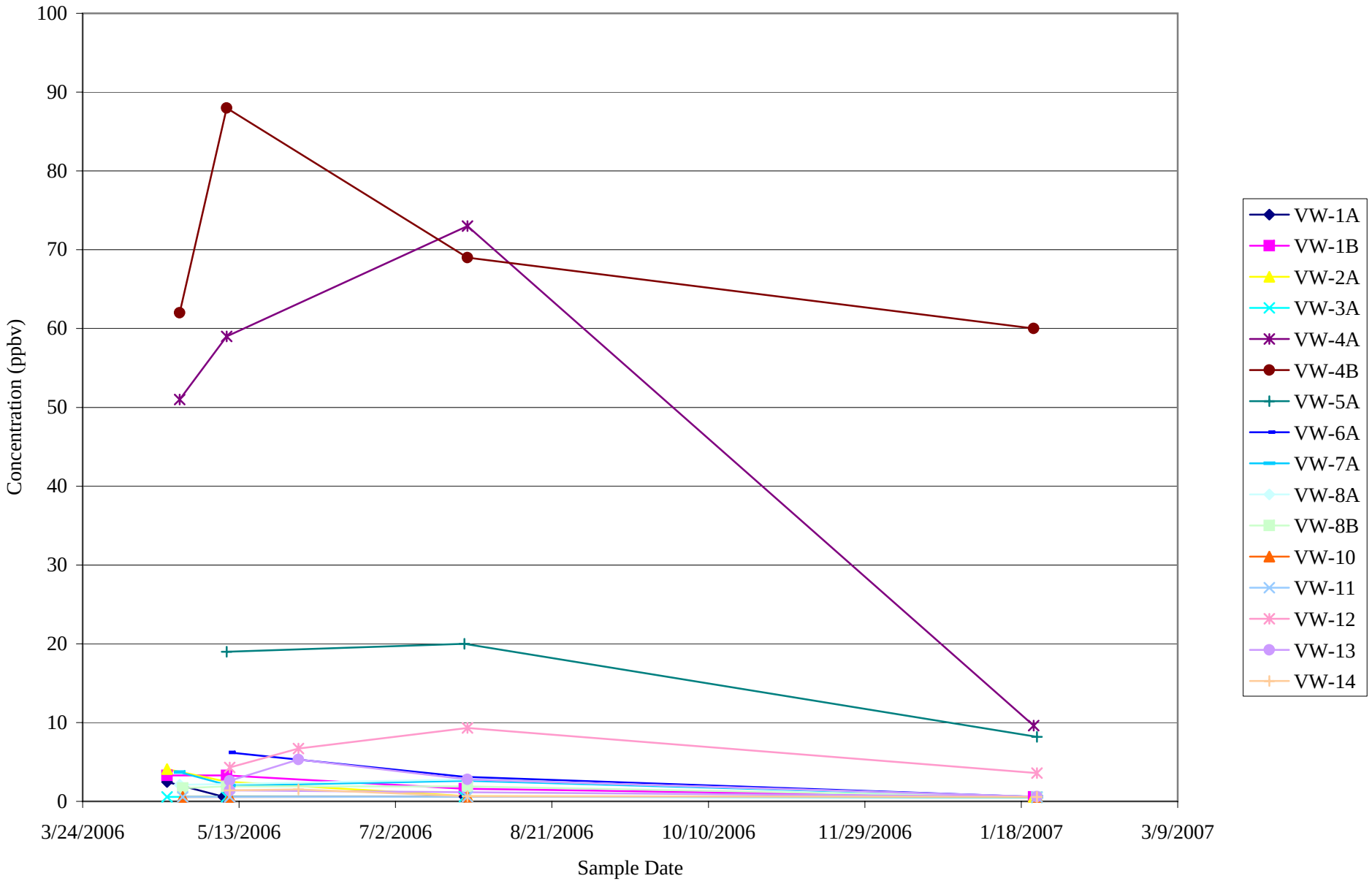
Time-Series Plot of Benzene in Offsite Soil Vapor
Poway Landfill

Geosyntec consultants



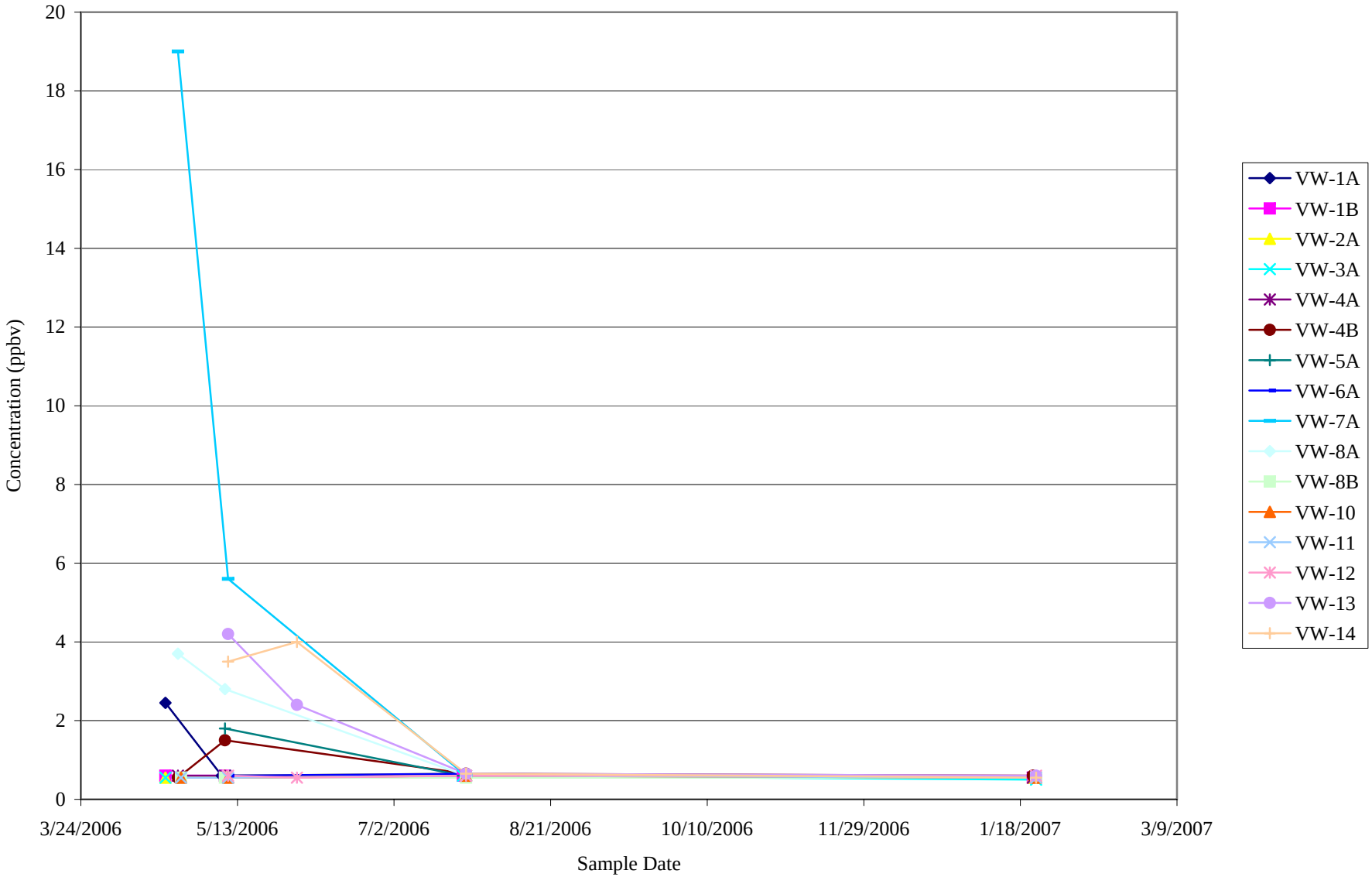
Time-Series Plot for Tetrachloroethene in Offsite Soil Vapor
Poway Landfill

Geosyntec consultants



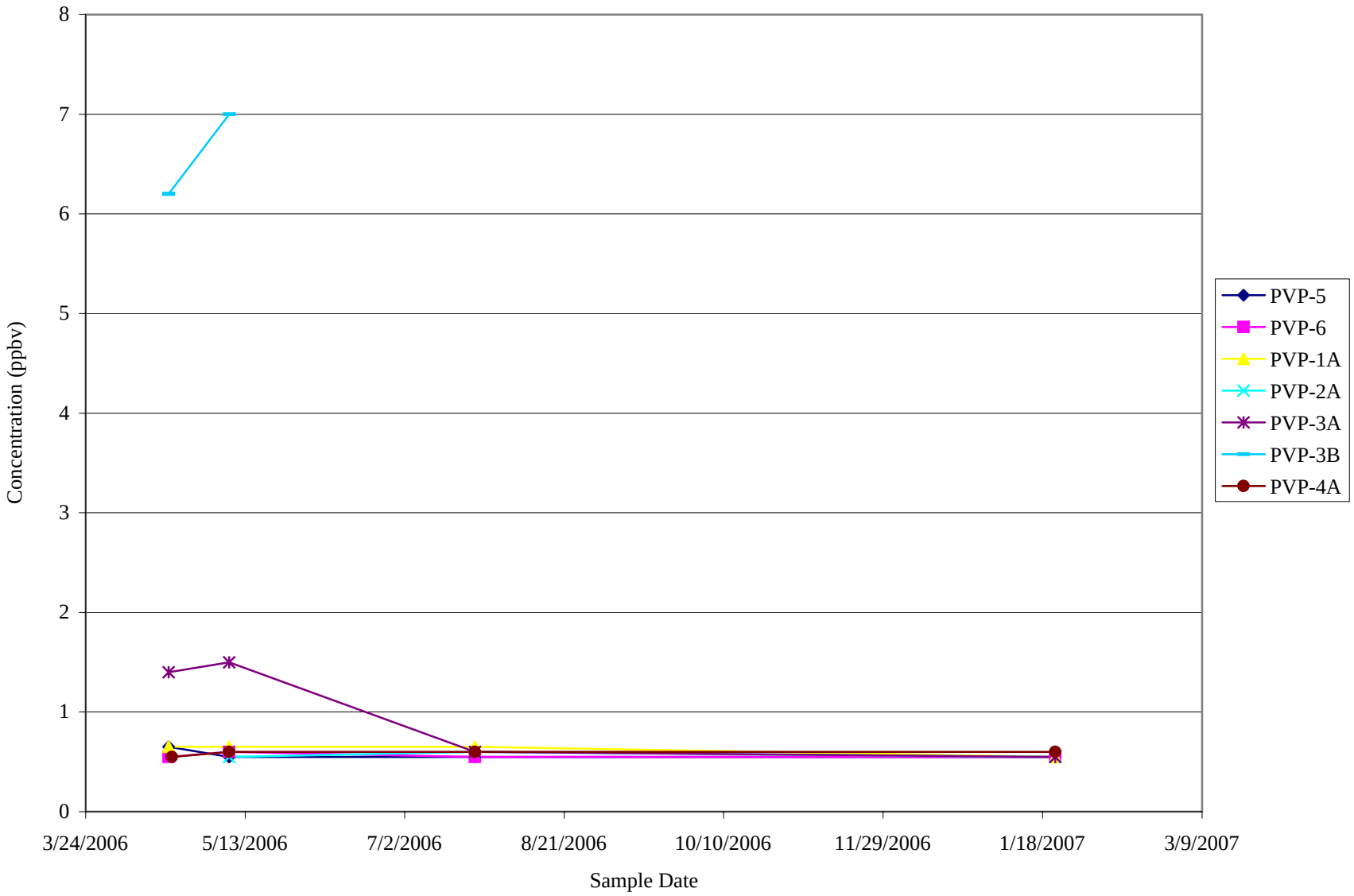
Time-Series Plot for Trichloroethene in Offsite Soil Vapor
Poway Landfill

Geosyntec consultants



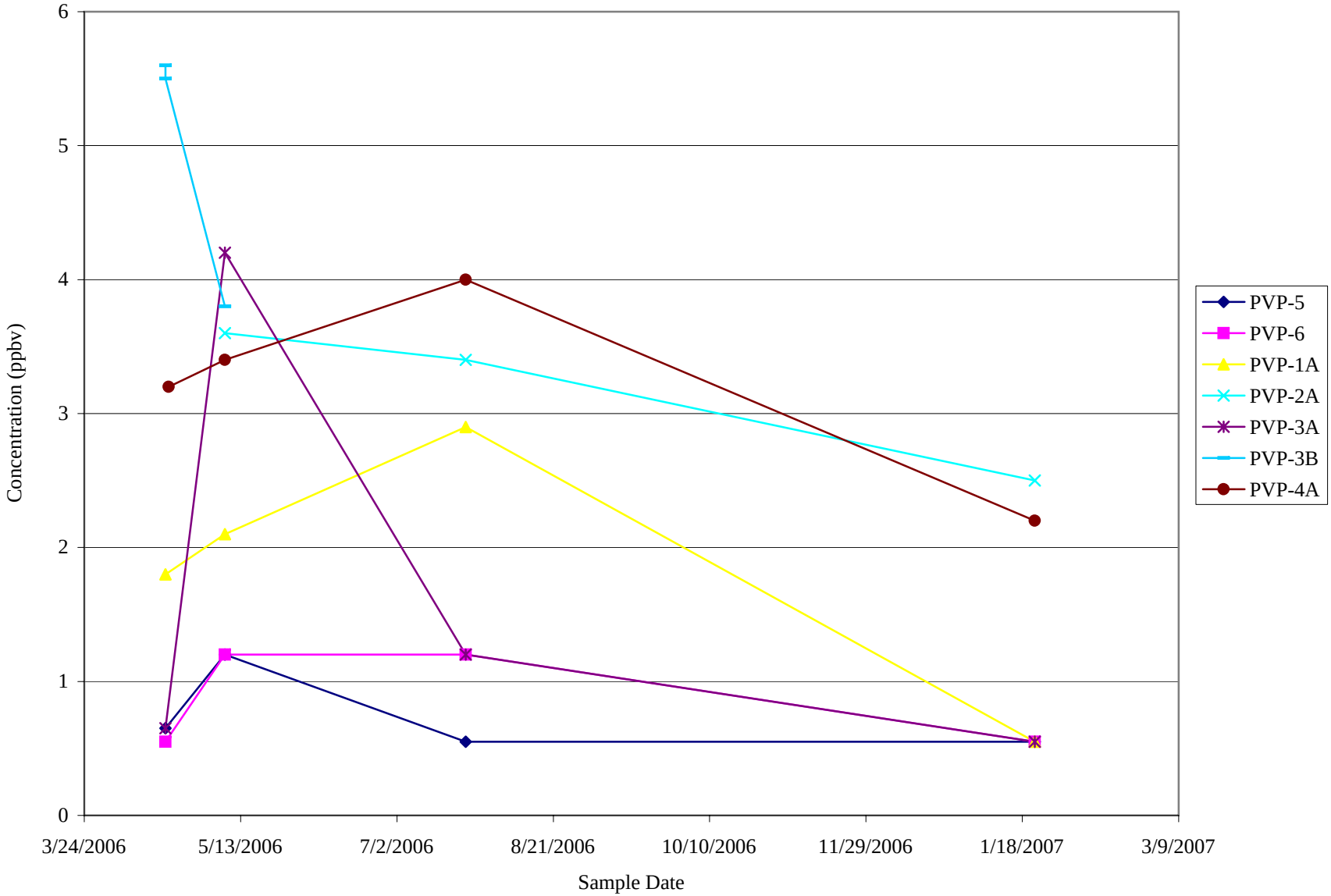
Time-Series Plot for Benzene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



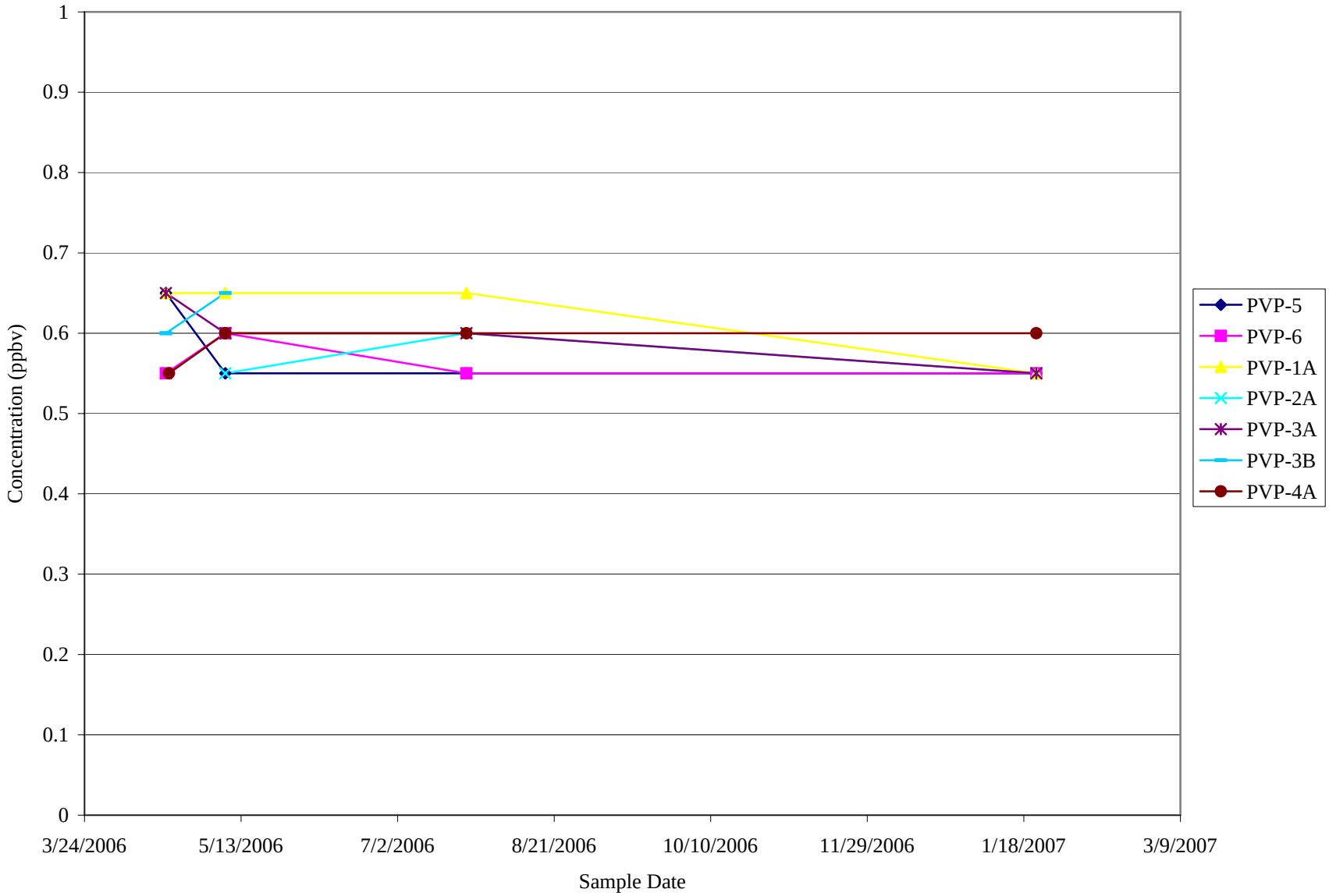
Time-Series Plot for Tetrachloroethene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



Time-Series Plot for Trichloroethene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



APPENDIX E

Site Maintenance Reports

Monthly Closed Disposal Site Inspection

Facility Name: Poway Landfill **Date:10/24/06**
Facility Location: 14600 Poway Rd., Poway **Inspection Time: AM**
Inspector: Raul Gabbert

Title 27 CCR **A: Acceptable** **UA: Unacceptable**	
20750-Site Maintenance **A UA**	**Picture #: 3** **Remarks: Site in good condition.**
20919.5-Explosive Gas Control **A UA**	**Picture #:** **Remarks: GEM 2000 meter not set up for surface monitoring.**
20921-Gas Monitoring and Controls **A UA**	**Picture #:** **Remarks: GEM 2000 meter not set up for surface monitoring. Monitoring probes checked.**
20650-Grading of Fill Surfaces **A UA**	**Picture #: 1,2** **Remarks: No signs of ponding or settling noted.**
21140-Final Cover **A UA**	**Picture #:** **Remarks: Grass growth dormant.**
21142-Final Grading **A UA**	**Picture #:** **Remarks: Generally good.**
Title 27 CCR	

Monthly Closed Disposal Site Inspection

A: Acceptable **UA: Unacceptable**	
21145-Slope Stability **A UA**	**Picture #: 4,5** **Remarks: Slopes in good shape. No signs of excessive erosion.**
21150-Drainage/Erosion Control **A UA**	**Picture #: 6,9** **Remarks: Desiltation pond clear. Inlets and ditches clean. Some gravel bags run over. Will have these replaced.**
20830-Litter Control **A UA**	**Picture #:** **Remarks: Litter along main gate and fence picked up.**
20530-Site Security **A UA**	**Picture #: 7** **Remarks: New "Keep Out" sign posted on E access gate. Gates and fencing in good order.**
Unacceptable issues not corrected from last month: **Note: Pic 8) Well W-20 gas line should be extended to prevent pulling at flex hose couplings.**	

Title 27 CCR Definitions

Monthly Closed Disposal Site Inspection

20530-Site Security-The site shall be designed to discourage unauthorized access by persons and vehicles by using a perimeter barrier or topographic constraints. Areas within the site where open storage or ponding of hazardous materials occurs shall be separately fenced or otherwise secured as determined by the EA. The EA may also require that other areas of the site be fenced to create an appropriate level of security.

20650-Grading of Fill Surfaces- Covered surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding. Grades shall be established of sufficient slopes to account for future settlement of the fill surface. Other effective methods may be allowed by the EA.

21140-Final Cover- The final cover shall function with minimum maintenance and provide waste containment to protect public health and safety. The EA may require additional thickness, quality, and type of final cover.

21142-Final Grading- Final grades must be designed and maintained to reduce impacts to health and safety and take into consideration any postclosure land use.

21145-Slope Stability- Integrity of final slopes shall be maintained.

21150-Drainage/Erosion Control- Final drainage and erosion system shall be designed and maintained to ensure integrity of postclosure land uses, roads, and structures; to prevent public contact with waste and leachate; to ensure integrity of gas monitoring and control systems; to prevent safety hazards, and prevent exposure of waste.

20830-Litter Control- Litter shall be controlled, routinely collected and disposed of properly. Windblown materials shall be controlled to prevent injury to the public and personnel. Controls shall prevent the accumulation, or off-site migration, of litter quantities that create a nuisance or cause other problems.

20919.5-Exposive Gas Control- (a) Concentration of methane gas generated by the facility does not exceed 25% of the LEL for methane in facility structures and does not exceed the LEL at the facility property boundary. (b) Routine methane monitoring program implemented. (c) If levels exceeded, necessary steps taken to ensure protection of human health.

20921-Gas Monitoring and Controls- (a) Concentration of methane gas must not exceed 1.25% by volume in air within on-site structures, concentration of methane migrating from the landfill must not exceed 5% by volume in air at the facility property boundary or an alternative boundary, trace gases shall be controlled to prevent adverse acute and chronic exposure to toxic and/or carcinogenic compounds. (b) Program shall continue for a period of 30 years or until the operator receives written authorization to discontinue.

20750-Site Maintenance- The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions with respect to requirements of the CIWMB standards, and conditions established be the EA. All other aspects of the disposal site shall be kept in a state of reasonable repair.

Poway Landfill – Photos

10/24/2006

	Pic 1 View of S end of top deck, looking NW.
	Pic 2 View of S end of top deck, looking N.
	Pic 3 View of SE corner of landfill, looking NW from E access gate.

Poway Landfill – Photos

10/24/2006

	Pic 4 View of S facing slopes and bench roads, looking SW.
	Pic 5 View of S facing slopes and bench roads, looking SE.
	Pic 6 View of desiltation pond, looking W.

Poway Landfill – Photos

10/24/2006

	Pic 7 View of new “Keep Out” sign placed on E access gate.
	Pic 8 W-20 could use lengthening of connector line to keep from pulling.
	Pic 9 Some gravel bags have been run over. Will need to be replaced.

Monthly Closed Disposal Site Inspection

Facility Name: Poway Landfill **Date: 3/20/07**
Facility Location: 14600 Poway Rd., Poway **Inspection Time: AM**
Inspector: Raul Gabbert

Title 27 CCR **A: Acceptable** **UA: Unacceptable**	
20750-Site Maintenance **A UA**	**Picture #: 7-9** **Remarks: Site in good condition.**
20919.5-Explosive Gas Control **A UA**	**Picture #:** **Remarks: GEM 2000 meter not set up for surface monitoring.**
20921-Gas Monitoring and Controls **A UA**	**Picture #:** **Remarks: GEM 2000 meter not set up for surface monitoring. Monitoring probes checked.**
20650-Grading of Fill Surfaces **A UA**	**Picture #:** **Remarks:**
21140-Final Cover **A UA**	**Picture #: 1,2** **Remarks: Grass growth very good due to rains.**
21142-Final Grading **A UA**	**Picture #:** **Remarks:**

Monthly Closed Disposal Site Inspection

Title 27 CCR **A: Acceptable** **UA: Unacceptable**	
21145-Slope Stability **A UA**	**Picture #: 3-5** **Remarks: Slopes in good shape. No signs of excessive erosion.**
21150-Drainage/Erosion Control **A UA**	**Picture #:6** **Remarks: Desiltation pond clear. Inlets and ditches clean. Gravel bags in good order.**
20830-Litter Control **A UA**	**Picture #:** **Remarks: Litter along main gate and fence picked up.**
20530-Site Security **A UA**	**Picture #:** **Remarks: Gates and fencing in good order.**
Unacceptable issues not corrected from last month: **Note:**	

Monthly Closed Disposal Site Inspection

Title 27 CCR Definitions

20530-Site Security-The site shall be designed to discourage unauthorized access by persons and vehicles by using a perimeter barrier or topographic constraints. Areas within the site where open storage or ponding of hazardous materials occurs shall be separately fenced or otherwise secured as determined by the EA. The EA may also require that other areas of the site be fenced to create an appropriate level of security.

20650-Grading of Fill Surfaces- Covered surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding. Grades shall be established of sufficient slopes to account for future settlement of the fill surface. Other effective methods may be allowed by the EA.

21140-Final Cover- The final cover shall function with minimum maintenance and provide waste containment to protect public health and safety. The EA may require additional thickness, quality, and type of final cover.

21142-Final Grading- Final grades must be designed and maintained to reduce impacts to health and safety and take into consideration any postclosure land use.

21145-Slope Stability- Integrity of final slopes shall be maintained.

21150-Drainage/Erosion Control- Final drainage and erosion system shall be designed and maintained to ensure integrity of postclosure land uses, roads, and structures; to prevent public contact with waste and leachate; to ensure integrity of gas monitoring and control systems; to prevent safety hazards, and prevent exposure of waste.

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20921-Gas Monitoring and Controls- (a) Concentration of methane gas must not exceed 1.25% by volume in air within on-site structures, concentration of methane migrating from the landfill must not exceed 5% by volume in air at the facility property boundary or an alternative boundary, trace gases shall be controlled to prevent adverse acute and chronic exposure to toxic and/or carcinogenic compounds. (b) Program shall continue for a period of 30 years or until the operator receives written authorization to discontinue.

Monthly Closed Disposal Site Inspection

20750-Site Maintenance- The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions with respect to requirements of the CIWMB standards, and conditions established be the EA. All other aspects of the disposal site shall be kept in a state of reasonable repair.

Poway Landfill – Photos

3/20/2007

	Pic 1 View of top deck, looking S.
	Pic 2 View of top deck, looking W.
	Pic 3 View of S facing slope and topmost bench, looking E.

Poway Landfill – Photos

3/20/2007

	Pic 4 View of E facing slope and bench, looking N.
	Pic 5 View of S facing slope and middle bench, looking E.
	Pic 6 View of S facing slope, lowest bench and desiltation pond, looking E.

Poway Landfill – Photos

3/20/2007

	Pic 7 View from W fence line, looking E.
	Pic 8 View of lowest S facing slope and bench, looking W.
	Pic 9 View of SE corner of landfill, looking NW.