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2011 ANNUAL MONITORING REPORT

Berry Street Mall Landfill
901 Galleria Boulevard
Roseville, California

WDR No. 89-115

Prepared By:

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February 15, 2012

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 Landfill Location and Description 1

1.2 Background Information 2

2.0 GROUNDWATER SAMPLING AND ANALYSES 3

2.1 Groundwater Monitoring Network Description 3

2.2 Testing Requirements 4

2.3 Sampling Methods 4

2.4 Statistical Analysis Methods 5

3.0 RESULTS 7

3.1 Groundwater Flow Direction and Gradient 7

3.2 Field Measurements 8

3.3 Groundwater Sample Analytical Results 8

3.4 Compliance Well Data and Concentration Limit Comparison 9

4.0 CONCLUSIONS 10

4.1 Groundwater elevation results 10

4.2 Field Measurements 10

4.3 Inorganic Constituents 10

4.4 Organic Constituents 11

5.0 REFERENCES 12

TABLE OF CONTENTS (Continued)

LIST OF FIGURES

Figure 1. .....Site Location Map
Figure 2. .....Monitoring Well Location Map
Figure 3. ..... Groundwater Contour Map –December 7, 2010

LIST OF TABLES

Table 1. ..... Groundwater Monitoring Summary
Table 2. ..... General Chemistry Parameters in Groundwater
Table 3. .....Volatile Organic Compounds in Groundwater
Table 4 ..... Metals in Groundwater
Table 5 .....Surface Water Analytical Summary

LIST OF APPENDICES

Appendix A. ..... Sampling Information Sheets
Appendix B. ..... Laboratory Analytical Reports
Appendix C.....Statistical Analysis Data

1.0 INTRODUCTION

On behalf of A Greener Globe (AGG), Geological Analytics has prepared this *2011 Annual Monitoring Report* for the closed Berry Street Mall Landfill (Landfill). Monitoring and reporting activities were completed in compliance with Waste Discharge Requirements Order No. 89-115 (Order 89-115) and associated Monitoring and Reporting Program (M&RP 89-115), adopted by the Central Valley California Regional Water Quality Control Board (CVRWQCB) on June 23, 1989. This report includes fourth quarter 2011 groundwater elevation results and a summary of 2011 groundwater analytical results. A comparison of compliance well data with statistically derived concentration limits is also presented.

1.1 Landfill Location and Description

The Landfill is located at 901 Galleria Boulevard in the City of Roseville, Placer County, California, as shown on Figure 1. The Landfill footprint occupies approximately 11 acres of Parcel No. 015-100-048 which has total area of approximately 26 acres. This parcel is located within the northeast quarter of Section 35, Township 11 North, Range 6 East, Mount Diablo Baseline and Meridian.

The Landfill is centrally located within the property and is equipped with a final cover system meeting the regulatory prescriptive standard. Interior and perimeter surface drainage facilities include down drains, culverts, and paved ditches. Ancillary features also include leachate and standby landfill gas (LFG) collection systems, paved and gravel access roads, and a primary sedimentation basin.

The Landfill footprint and adjoining areas are covered with seasonal grasses. The Landfill is bordered by a retail complex to the north, and a nursery facility to the south. The area occupied by the nursery was formerly used as a transfer station and is currently leased to the nursery owner by AGG. Galleria Boulevard borders the Landfill along its eastern property boundary. The closed Roseville Sanitary Landfill (RSL) and two electrical substations are located further to the east of the Landfill, across Galleria Boulevard. The property located to the west of the Landfill is occupied by a commercial office development.

A Landfill map showing the general Landfill features and monitoring well locations is presented as Figure 2.

1.2 Background Information

The Landfill, formerly known as the Finger Sanitary Landfill, operated as a Class III (previously Group II-2) facility from approximately 1946 through 1987. The nature of the waste accepted at the Landfill included classified solid waste and construction debris. The Landfill received approximately 15 tons of waste per day and a total tonnage of approximately 224,500 tons over its operating life. The disposal of waste in the landfill was discontinued in November 1987. However, the receipt and processing of waste on-site continued at the transfer station until approximately 1996. The transfer station facility was converted to a nursery in February 2003.

In May 1992, final closure and post-closure maintenance plans were prepared for the Landfill under the California Integrated Waste Management Board's (CIWMB's) Orphan Sites Programs. Upon plan approval, construction of the final cover system and associated ancillary facilities were implemented between the fall of 1992 and spring of 1993. The final cover system consists of a 4-foot minimum thickness monolithic earthen low permeability layer placed over the top of the entire waste footprint. The ancillary facilities included surface water drainage control and sedimentation control improvements, placement of survey/settlement control monuments, installation of leachate and standby landfill gas (LFG) collection systems, and the installation of miscellaneous environmental monitoring systems.

From 1952 through November 1987, the Landfill was owned and operated by Mr. William Finger. In November 1987, ownership was transferred to the Estate of William Finger and Berry Street Mall, Inc. The current property owner, AGG acquired the property through foreclosure in August 1996.

Landfill background information presented in this section is based upon historical information presented in the *Annual 2004 Detection Monitoring Report* prepared by EBA Engineering in February 2005.

2.0 GROUNDWATER SAMPLING AND ANALYSES

A Groundwater Monitoring Program has been developed for the Landfill to meet requirements set forth in M&RP 89-115. Details regarding the scope of monitoring activities and corresponding results and findings are summarized in the following report sections.

2.1 Groundwater Monitoring Network Description

The existing groundwater monitoring network consists of six monitoring wells, GW-1 through GW-6. The locations of the monitoring wells are shown on Figure 2. Monitoring wells GW-1 through GW-4 were installed in 1993. These wells are constructed of 5-inch diameter Schedule 80 polyvinyl chloride (PVC) casing and completed at depths ranging from approximately 122 to 152 feet below ground surface (bgs), which corresponds to approximately 38 to 82 feet above mean sea level (AMSL). At the time of installation, GW-1 and GW-4 were targeted for use as upgradient monitoring wells, and GW-2 and GW-3 were designated as downgradient compliance wells.

Monitoring wells GW-5 and GW-6 were installed in June 2004 as part of a site investigation to further evaluate the nature and extent of groundwater impacts at the Landfill. GW-5 and GW-6 were completed at depths ranging from approximately 154 to 165 feet bgs, which corresponds to approximately 31 to 34 feet AMSL. Wells GW-5 and GW-6 are constructed of 2-inch diameter Schedule 40 PVC casing. Findings from the Landfill characterization work concluded that the locations of GW-5 and GW-6 would serve as suitable northern and western compliance wells. GW-5 and GW-6 were subsequently incorporated into the groundwater monitoring network beginning in the fourth quarter 2004.

2.2 Testing Requirements

The following table provides a summary of field and laboratory testing requirements for groundwater as stipulated in M&RP 89-115.

SUMMARY OF FIELD AND LABORATORY TESTING REQUIREMENTS GROUNDWATER MONITORING PROGRAM ANNUAL EVENT
Field Parameters: • pH • Specific Conductance • Depth to Water ***Laboratory Parameters:*** • Chloride, sulfate, dissolved iron, chemical oxygen demand, nitrate, and total sulfides. • Volatile organic compounds. • Metals including arsenic, cadmium, total chromium, hexavalent chromium, copper, lead, magnesium, manganese, mercury, nickel, selenium, silver, and zinc.

2.3 Sampling Methods

Doulos Environmental Company (Doulos) completed the following groundwater sampling activities on December 6, 2011 under the direction of AGG.

- Depth to groundwater was measured in wells GW-1 through GW-6 from the top of casing (TOC) using an electronic sounder capable of measurement to 0.01 foot.

- Prior to sampling, a minimum of three well casing volumes was purged from each well using a portable submersible pump. During purging, field measurements were recorded periodically to monitor the stabilization of pH, temperature, and specific conductance. Sampling information sheets are provided in Appendix A. No groundwater sample was collected from GW-2 due to insufficient water in this well.

- Following purging, groundwater samples were collected using disposable tubing in appropriate containers for laboratory analysis. Samples collected for volatile organic compounds (VOCs) analyses were retained in 40-milliliter glass volatile organic analyses (VOA) vials fitted with Teflon-lined septa.

- Groundwater samples were delivered under Chain of Custody to SunStar Laboratories, Inc., a State of California certified laboratory located in Lake Forest, California. Complete chain of custody documentation is included in Appendix B.

- Samples were analyzed for chloride, sulfate, chemical oxygen demand (COD), nitrate, VOCs, and the metals arsenic, cadmium, total and hexavalent chromium, copper, dissolved iron, lead, manganese, magnesium, mercury, nickel, selenium, silver, and zinc. Laboratory analytical reports including analyses methods and QA/QC procedures are included in Appendix B.

2.4 Statistical Analysis Methods

Statistical analyses of selected parameters were completed to compare compliance well analytical data with background conditions. Statistically derived concentration limits based upon background concentrations were established for the following naturally occurring parameters: chemical oxygen demand (COD), chloride, nitrate as nitrogen, sulfate, and dissolved iron. A concentration limit was also calculated for the only VOC detected in compliance wells in December 2011, dichlorodiflouromethane (DCDFM). Concentration limits were also calculated for magnesium which was detected in all site wells; as well as for hexavalent chromium, mercury and zinc, which were detected in compliance well GW-6.

Concentration limits were generated consistent with guidelines presented in the *Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs* (ASTM D6312-05) and the *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance* (USEPA 1992). The *SYSTAT 12* software program developed by SYSTAT Software, Inc. was used in these analyses. Laboratory detection limits were selected to represent non-detect results.

Concentration limits were calculated on an interwell basis. Specifically, analytical results from upgradient monitoring wells GW-1 and GW -4 were pooled, and concentration limits calculated from the pooled data set were then compared to the December 2011 analytical results for downgradient monitoring wells GW-3, GW-5 and GW-6. No groundwater sample was collected from compliance well GW-2 due to insufficient water in this well. Concentration limit calculations were based upon analytical results for the upgradient wells dating back to June 2004.

A Shapiro-Wilk distribution analysis was applied to upgradient well results to identify appropriate parametric or non-parametric concentration limits. For constituents with a Shapiro-Wilk p-value less than 0.05, a non-parametric concentration limit was calculated. Specifically, December 2011 compliance well results for each non-parametric constituent were compared to the maximum concentration of that constituent detected in upgradient wells since June 2004. If any of the December 2011 compliance well results exceeded the maximum detected upgradient constituent concentration since June 2004, then an on-site area of impact is suggested. Because twenty observations are included in the pool of upgradient well results used in this

analysis, and one future result is being predicted, the confidence level for the resulting concentration limit is equal to 20/(20+1) or 95%.

For chloride, which had a Shapiro Wilk p-value greater than 0.05, the following equation recommended by the USEPA was applied to calculate an upper parametric concentration limit:

$$\text{Prediction Limit} = \overline{X} + t\ (\text{for } n\text{-}1,k,0.95) * S(1/m + 1/n)^{1/2}$$

Where

$\overline{X}$ = Mean constituent concentration detected in upgradient wells since June 2004.
t = T-statistic provided in a look up table (Appendix C).
S = Standard deviation of upgradient well constituent concentrations.
k = number of sampling periods to be compared to concentration limit (k=1)
m = number of independent samples to be compared to concentration limit in sampling period k. (m=3)
n = number of observations for upgradient wells considered (n=20)

As with the non-parametric concentration limit calculation, December 2011 compliance well constituent concentrations were compared with the corresponding parametric concentration limits to assess if an on-site area of impact is likely.

3.0 RESULTS

3.1 Groundwater Flow Direction and Gradient

The results of groundwater surface elevation measurements conducted at the Landfill on December 6, 2011 are summarized in Table 1, and a groundwater elevation contour map is presented as Figure 3. Groundwater elevation measurements indicate that groundwater flow direction beneath the Landfill is generally to the west and northwest, which is consistent with historical trends. Groundwater flow direction appears related to the original site topography and orientation of a former ephemeral drainage.

The hydraulic gradient beneath the Landfill ranged from approximately 0.028 foot per foot (ft/ft) beneath the northern section of the Landfill to approximately 0.057 ft/ft beneath the southern most section of the Landfill. Fourth Quarter 2011 gradient patterns are consistent with historical trends.

The average linear velocity (seepage velocity) of groundwater is calculated using the following equation:

$$V_x = Q / (n_e A) = - (Kdh) / (n_e dl)$$

Where

V_x is the average linear velocity
n_e is the effective porosity
Q is the discharge (flux)
A is the cross-sectional area of flow
K is the hydraulic conductivity
dh is the difference in groundwater elevation between two measurement points
dl is the distance between the two measurement points used for dh

No site-specific data exists for effective porosity (n_e) or hydraulic conductivity (K) beneath the Landfill. To calculate a groundwater velocity at the site, Geological Analytics used values of 0.15 for n_e and 0.00038 foot/second (ft/s) for K based upon published data (C.W. Fetter, *Applied Hydrogeology, 4th Edition*, Prentice Hall) for fine sand, which is the predominant soil type in the upper water-bearing zone beneath the Landfill. Using GW-1 and GW-6 as the two measurement points and the equation above, the groundwater velocity under the Landfill on December 6, 2011 was 5.8 $x10^{-4}$ ft/s.

3.2 Field Measurements

Levels of pH in compliance wells MW-3, MW-5, and MW-6 were slightly below pH measurements in background wells MW-1 and MW-4 in December 2011. In addition, with the exception of GW-4, December 2011 pH levels in all Landfill wells were slightly less than December 2010 measurements. The average pH in background wells in December 2011 was 7.4 compared to 7.8 in December 2010. In addition, the average pH for compliance wells was 7.2 in December 2011 as compared to 7.4 in December 2010.

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The average specific conductance (SC) values in compliance wells was 524 micromhos per centimeter (µmhos/cm) in December 2011, which is below the average SC of 549 µmhos/cm in background wells. The average SC in compliance wells in December 2010 was 585 µmhos/cm. Overall, SC 2011 SC measurements are consistent with historical data.

Historical pH and SC results are presented in Table 2.

3.3 Groundwater Sample Analytical Results

General chemistry results from the December 2011 groundwater sampling event are summarized in Table 2, VOC results are provided in Tables 3a and 3b, and metals results are shown in Tables 4a and 4b.

Nitrate levels in December 2011 were elevated significantly in all site wells in December 2011 compared to the historical data. The average nitrate concentration in background wells in December 2011 was 5.8 mg/l as compared to 0.9 mg/l in December 2010. The average nitrate concentration in compliance wells in December 2011 was 6.1 mg/l compared to 1.2 mg/l in December 2010.

Sulfate levels declined in GW-5 between 2010 and 2011, but were otherwise consistent with the historical data. No dissolved iron or sulfides were detected in any of the Landfill wells in December 2011 as was the case in prior years. Overall, COD levels were elevated slightly compared to December 2010.

With the exception of DCDFM and carbon tetrachloride, no VOCs were detected in Landfill monitoring wells. These results are generally consistent with the historical data. Carbon tetrachloride was detected only in upgradient well GW-1 at 1.4 micrograms per liter (µg/l), which suggests an upgradient source. The MCL for carbon tetrachloride is 0.5 µg/l. DCDFM was detected at 0.91 µg/l in GW-5. There is no established MCL for DCDFM.

Magnesium was detected in all wells in December 2011 at levels ranging from 15 mg/l to 43 mg/l, which is consistent with the historical record. In addition to magnesium, the following metals were detected in Landfill wells in December 2011: hexavalent chromium mercury, and zinc. Hexavalent chromium was detected in GW-6 at 57 μg/l, which exceeds the California Public Health Goal (PHG) for hexavalent chromium of 0.02 μg/l. However, it is significant to note that total chromium was not detected in the GW-6 at a reporting limit of 5 μg/l, which is far less than the hexavalent chromium result. It is possible that turbidity in the GW-6 compromised the hexavalent chromium result that was obtained using the colorimetric Method 7196. Total chromium was analyzed using Method 7199, which is a quantitation method. Mercury was detected in all Landfill wells, however with the exception of GW-6 where mercury was detected at 0.95 mg/l, mercury levels were near the laboratory detection limit of 0.0005 mg/l. The MCL for mercury is 0.002 mg/l. Zinc was detected at 0.035 mg/l in GW-6, which is well below the MCL for zinc of 5 mg/l.

Complete laboratory analytical reports and chain of custody documentation are provided in Appendix B.

3.4 Compliance Well Data and Concentration Limit Comparison

Results of the Fourth Quarter 2011 concentration limit calculations are presented in the following table. Supporting documentation and tabulated data used to calculate the concentration limits are provided in Appendix C.

GROUNDWATER CONCENTRATION LIMITS FOR MONITORING PARAMETERS FOURTH QUARTER 2011		
Monitoring Parameter	**Concentration Limit**	**Shapiro-Wilk Distribution (95% Confidence Limit)**
Chemical Oxygen Demand	21 mg/l (max in GW-4 in 12/04)	Non-Parametric
Chloride	55 mg/l (calculated)	Parametric
Nitrate (as N)	6.1 mg/l (max in GW-4 in 12/11)	Non-Parametric
Sulfate	33 mg/l (max in GW-4 in 12/09)	Non-parametric
Dichlorodifluoromethane	0.88 µg/l (max in GW-1 in 12/04)	Non-parametric
Hexavalent Chromium	0.025 (detection limit)	Non-parametric
Mercury	0.57 µg /l (max in GW-4 in 12/11)	Non-parametric
Zinc	0.092 mg/l (GW-1 in 12/08)	Non-parametric

A comparison of the concentration limits presented above to analytical data for compliance wells GW-3, GW-5 and GW-6 indicates the following:

- Chemical oxygen demand was not detected in compliance wells at levels exceeding the concentration limit.

- Chloride which was detected in all Landfill wells, was detected in GW-5 at 66.9 mg/l which exceeds the concentration limit of 55 mg/l.
- Nitrate was detected in GW-3 and GW-5 at 6.37 mg/l and 8.34 mg/l, respectively. These concentrations exceed the concentration limit for nitrate of 6.1 mg/l.
- Sulfate was detected in GW-3 and GW-5 at 73.5 mg/l and 84.3 mg/l, respectively. These concentrations exceed the concentration limit for sulfate of 33 mg/l.
- DCDFM was detected in GW-5 at 0.91 µg/l, which slightly exceeds the concentration limit of 0.88 µg/l.
- Hexavalent chromium was detected in GW-6 at 57 µg/l which exceeds the concentration limit of 25 µg/l. It is significant to note that total chromium was not detected at the reporting limit of 5 µg/l. The discrepancy may be related to the analytical methods applied.
- Mercury was detected at concentrations ranging from 0.65 µg/l to 95 µg/l in compliance wells. The concentration limit for mercury is 0.57 µg/l.
- Zinc was detected at 0.035 mg/l in GW-6 which is below the concentration limit of 0.092 mg/l.

Complete groundwater analytical results are presented in Tables 2, 3, and 4. Supporting calculations are included in Appendix C.

4.0 CONCLUSIONS

4.1 Groundwater elevation results

Groundwater elevation, flow direction and gradient data for the fourth quarter 2011 are consistent with historical hydrogeologic conditions. Groundwater surface elevations continue a gradual increase with time.

4.2 Field Measurements

Levels of pH in compliance wells were slightly below pH measurements in background wells MW-1 and MW-4 in December 2011. With the exception of GW-4, pH levels in all Landfill wells in December 2011 were slightly less than in December 2010 measurements.

The average specific conductance (SC) values in compliance wells was 524 micromhos per centimeter (µmhos/cm) in December 2011, which is below the average SC of 549 µmhos/cm in background wells.

4.3 Inorganic Constituents

Inorganic constituent level concentrations for December 2011 were generally consistent with the historical data. However, nitrate levels increased significantly in all background and compliance

wells. Sulfate levels declined in GW-5 between 2010 and 2011, but were otherwise consistent with the historical data. No dissolved iron or sulfides were detected in any of the Landfill wells in December 2011 as was the case in prior years. Overall, COD levels were elevated slightly compared to December 2010. The following inorganic constituents were detected at levels exceeding the corresponding concentration limit: COD, chloride, nitrate and sulfate. These results suggest an on-site source.

December 2011 analytical results for metals are generally consistent with the historical data. However, mercury was detected in all Landfill wells and hexavalent chromium and zinc were detected in GW-6. The hexavalent chromium result may not be accurate because it is not consistent with the total chromium results for GW-6. Mercury in GW-6 exceeded the applicable concentration limit. These results suggest an on-site source.

4.4 Organic Constituents

With the exception of DCDFM and carbon tetrachloride, no VOCs were detected in Landfill monitoring wells, and carbon tetrachloride was not detected in compliance wells. These results are generally consistent with the historical data. DCDFM was detected at a concentration slightly exceeding the corresponding concentration limit. Analytical results suggest an upgradient source of carbon tetrachloride.

5.0 REFERENCES

American Society for Testing and Materials (ASTM), 2005, *ASTM D6312-05, Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs.*

Bryan A. Stirrat & Associates, Inc., May 1992, revised April 1994, Final Post-Closure Maintenance Plan, prepared for California Integrated Waste Management Board

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EBA Engineering, February 2005, *Annual 2004 Detection Monitoring Report, Berry Street Mall Landfill, Roseville, California.*

USEPA, July 1992, *Statistical Analysis Groundwater Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance*, Office of Solid Waste, Permits and State Program Division, Washington D.C.

California Regional Water Quality Control Board, Central Valley Region, June 23, 1989, *Waste Discharge Requirements Order No. 89-115 (Order 89-115)*.

California Regional Water Quality Control Board, Central Valley Region, June 23, 1989, *Monitoring and Reporting Program (M&RP 89-115)*.

REMARKS AND SIGNATURE

The findings presented herein are professional opinions based on the data presented in this report. They are intended only for the indicated purpose and project Landfill. Furthermore, the findings presented herein apply to Landfill conditions existing at the time of our study. Changes in the conditions of the subject property can occur with time because of natural processes or the works of man on the project Landfill or on adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

This work was performed for the sole use of Geological Analytics' client and appropriate regulatory agencies. Any reliance on this report by a third party is at such party's sole risk. Please note that the findings and evaluations presented herein are based, in part, on information generated by others. As a result, Geological Analytics cannot guarantee the precision or accuracy of data generated by other entities.

Geological Analytics' professional services were performed and findings obtained in accordance with generally accepted environmental consulting principles and practices in Placer County in 2011. This warranty is in lieu of all other warranties, either expressed or implied.

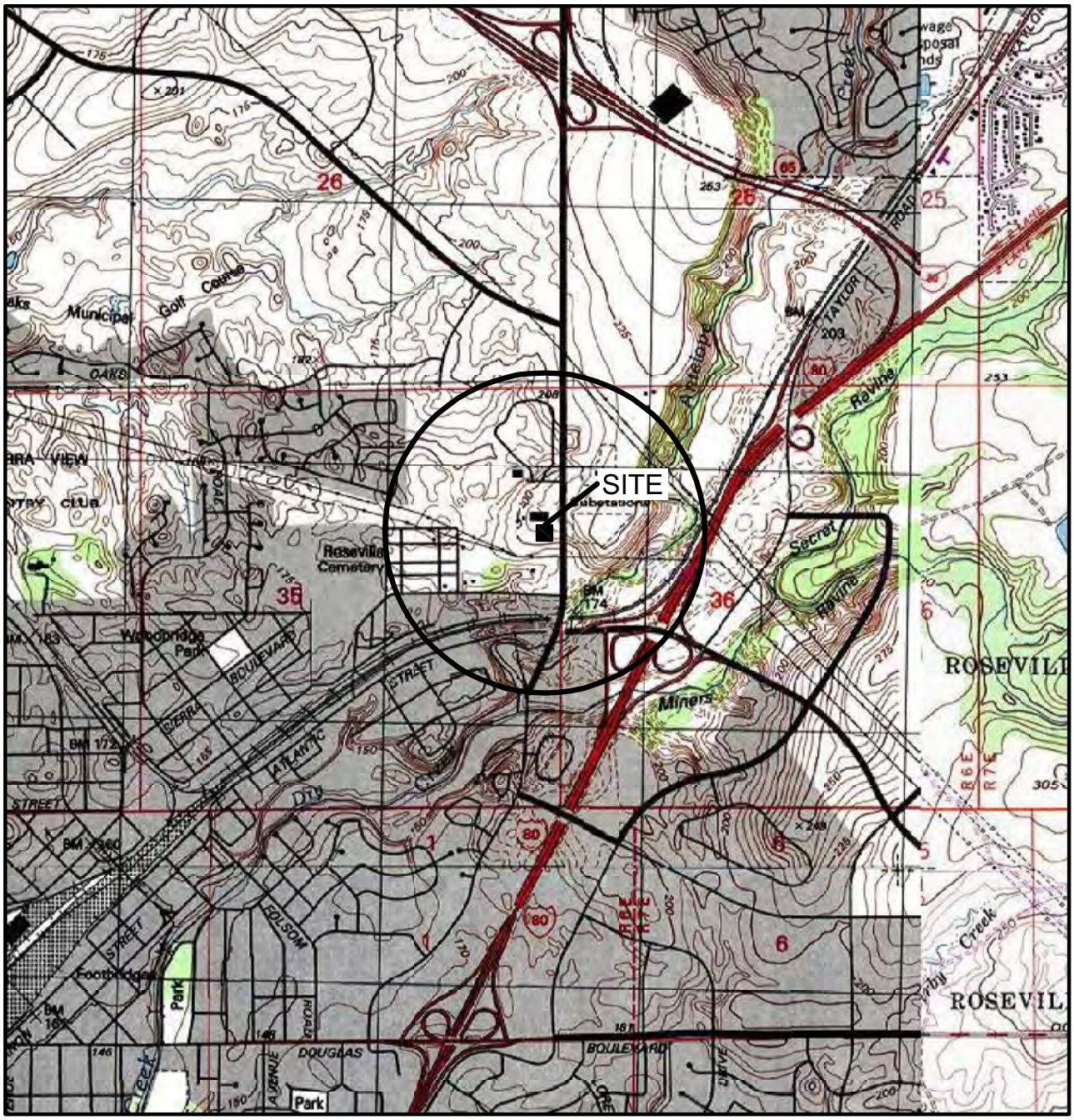
We appreciate the opportunity to provide you with geologic, engineering and environmental consulting services and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 226-5072.

Sincerely,

GEOLOGICAL ANALYTICS

Thomas E. Ballard, P.G., C.H.G.
Senior Hydrogeologist

FIGURES



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
ROSEVILLE, CA
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED: 1992

QUADRANGLE LOCATION

N

0 2000 FT

SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

BERRY STREET MALL LANDFILL
ROSE VILLE, CALIFORNIA

PROJECT NO. 03-1039	DRAWN BY JWY 7/20/06
FILE NO. 03-1039-01	PREPARED BY T.E.B.
REVISION NO. 0	REVIEWED BY

GEOLOGICAL ANALYTICS

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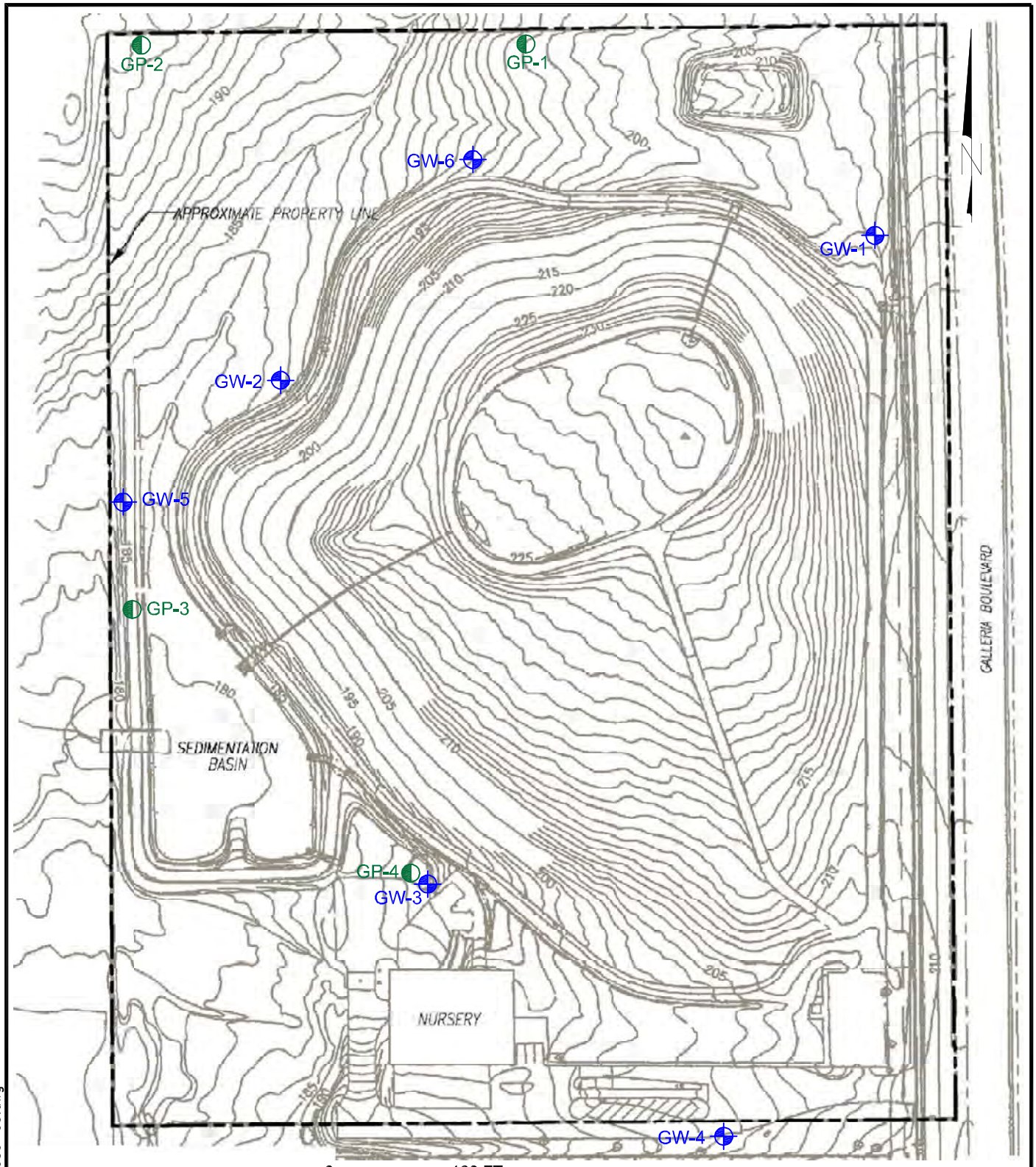

LEGEND

GP-4 PERIMETER LFG MONITORING POINT

GW-3 MONITORING WELL

MAP SOURCE: FINAL POST-CLOSURE MAINTENANCE PLAN, FIGURE 4-3 (MODIFIED

FIGURE 2

SITE MAP

BERRY STREET MALL LANDFILL
ROSE VILLE, CALIFORNIA

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03-1039	JWY 7/20/06
FILE NO.	PREPARED BY
03-1039-01	T.E.B.
REVISION NO.	REVIEWED BY
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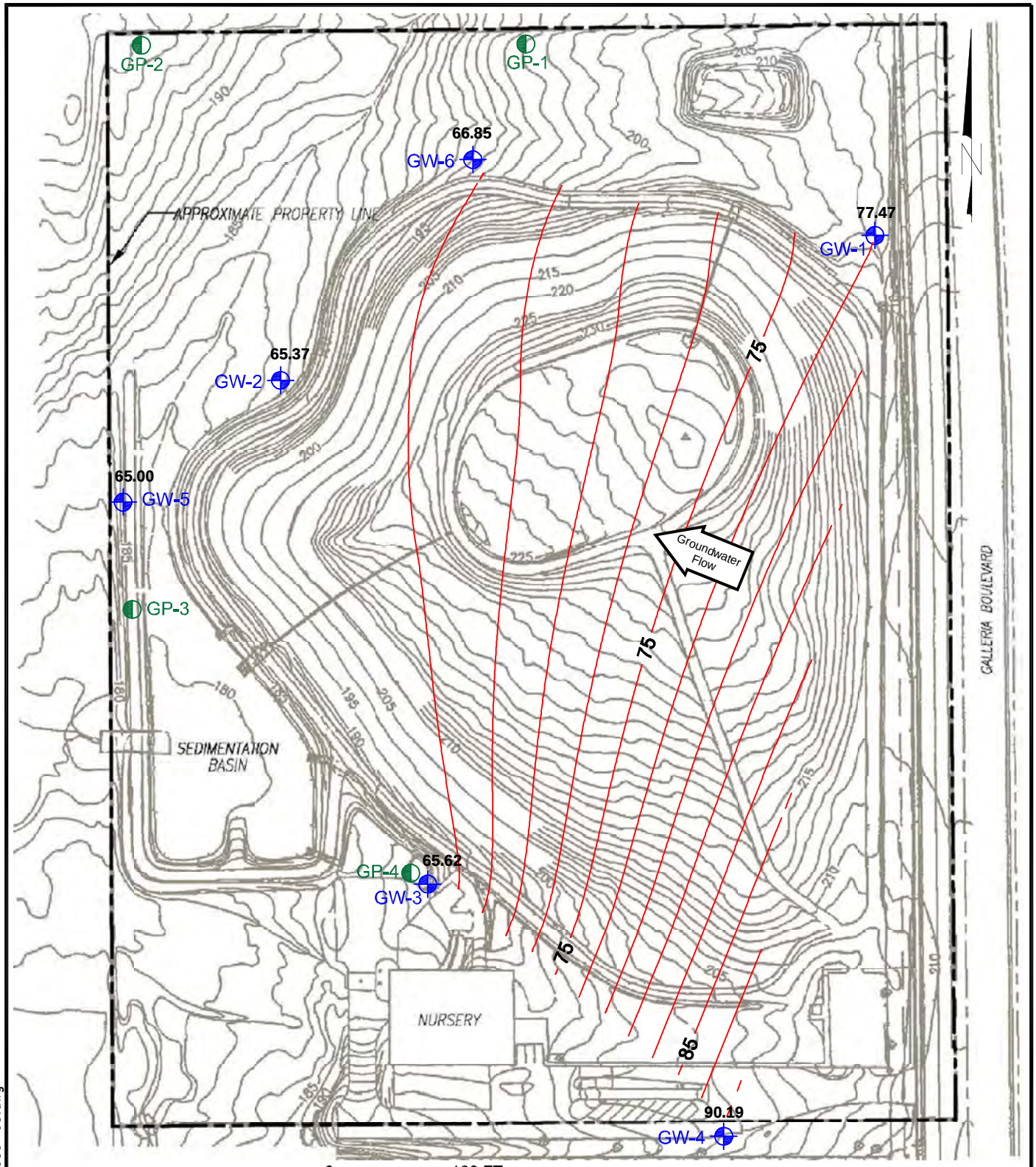

0 160 FT
SCALE

LEGEND

GP-4 PERIMETER LFG MONITORING POINT

GW-3 MONITORING WELL WITH GW ELEVATION

MAP SOURCE: FINAL POST-CLOSURE MAINTENANCE PLAN, FIGURE 4-3 (MODIFIED

FIGURE 3

GROUNDWATER CONTOUR MAP DECEMBER 6, 2011

BERRY STREET MALL LANDFILL
ROSE VILLE, CALIFORNIA

PROJECT NO. 03-1039	DRAWN BY JWY 7/20/06
FILE NO. 03-1039-01	PREPARED BY T.E.B.
REVISION NO. 0	REVIEWED BY

GEOLOGICAL ANALYTICS

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TABLES

TABLE 1
GROUNDWATER MONITORING SUMMARY
Berry Street Mall Landfill
901 Galleria Blvd. Roseville, CA

Well ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
GW-1	4/7/99	208.8	139.41	69.39
GW-1	7/11/01	208.8	139.26	69.54
GW-1	9/12/02	208.8	139.10	69.70
GW-1	3/11/03	208.8	139.18	69.62
GW-1	6/23/03	208.8	139.87	68.93
GW-1	9/4/03	208.8	138.85	69.95
GW-1	10/23/03	208.8	138.87	69.93
GW-1	2/5/04	208.8	139.10	69.70
GW-1	6/3/04	208.8	138.24	70.56
GW-1	9/16/04	208.8	137.94	70.86
GW-1	12/2/04	208.8	138.12	70.68
GW-1	3/29/05	208.8	137.65	71.15
GW-1	6/21/05	208.8	137.44	71.36
GW-1	9/13/05	208.8	137.25	71.55
GW-1	12/13/05	208.8	137.20	71.60
GW-1	3/28/06	208.8	136.13	72.67
GW-1	6/28/06	208.8	136.00	72.80
GW-1	9/28/06	208.8	135.71	73.09
GW-1	11/21/06	208.8	135.61	73.19
GW-1	3/14/07	208.8	135.76	73.04
GW-1	5/8/07	208.8	135.65	73.15
GW-1	8/14/07	208.8	135.69	73.11
GW-1	11/6/07	208.8	135.70	73.10
GW-1	3/11/08	208.8	135.95	72.85
GW-1	6/11/08	208.8	135.35	73.45
GW-1	9/23/08	208.8	135.30	73.50
GW-1	12/9/08	208.8	135.37	73.43
GW-1	3/10/09	208.8	135.37	73.43
GW-1	6/8/09	208.8	134.84	73.96
GW-1	9/28/09	208.8	134.43	74.37
GW-1	12/14/09	208.8	134.82	73.98
GW-1	3/4/10	208.8	134.63	74.17
GW-1	6/3/10	208.8	133.98	74.82
GW-1	9/21/10	208.8	133.38	75.42
GW-1	12/7/10	208.8	133.75	75.05
GW-1	3/8/11	208.8	133.33	75.47
GW-1	6/15/11	208.8	131.92	76.88
GW-1	9/29/11	208.8	131.38	77.42
GW-1	12/6/11	208.8	131.33	77.47

TABLE 1
GROUNDWATER MONITORING SUMMARY
Berry Street Mall Landfill
901 Galleria Blvd. Roseville, CA

Well ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
GW-2	6/15/11	187.61	121.85	65.76
GW-2	9/29/11	187.61	121.05	66.56
GW-2	12/6/11	187.61	122.24	65.37
GW-3	4/7/99	189.32	139.69	49.63
GW-3	7/11/01	189.32	138.66	50.66
GW-3	9/12/02	189.32	138.09	51.23
GW-3	3/11/03	189.32	137.65	51.67
GW-3	6/23/03	189.32	137.13	52.19
GW-3	9/4/03	189.32	137.12	52.20
GW-3	10/23/03	189.32	137.12	52.20
GW-3	2/5/04	189.32	136.99	52.33
GW-3	6/3/04	189.32	136.01	53.31
GW-3	9/16/04	189.32	135.74	53.58
GW-3	12/2/04	189.32	135.69	53.63
GW-3	3/29/05	189.32	135.60	53.72
GW-3	6/21/05	189.32	134.52	54.80
GW-3	9/13/05	189.32	134.16	55.16
GW-3	12/13/05	189.32	133.78	55.54
GW-3	3/28/06	189.32	131.83	57.49
GW-3	6/28/06	189.32	132.14	57.18
GW-3	9/28/06	189.32	131.78	57.54
GW-3	11/21/06	189.32	131.53	57.79
GW-3	3/14/07	189.32	131.05	58.27
GW-3	5/8/07	189.32	130.65	58.67
GW-3	8/14/07	189.32	130.37	58.95
GW-3	11/6/07	189.32	130.32	59.00
GW-3	3/11/08	189.32	131.87	57.45
GW-3	6/11/08	189.32	129.35	59.97
GW-3	9/23/08	189.32	129.20	60.12
GW-3	12/9/08	189.32	129.20	60.12
GW-3	3/10/09	189.32	128.37	60.95
GW-3	6/8/09	189.32	128.01	61.31
GW-3	9/28/09	189.32	127.58	61.74
GW-3	12/14/09	189.32	127.88	61.44
GW-3	3/4/10	189.32	127.32	62.00
GW-3	6/3/10	189.32	126.62	62.70
GW-3	9/21/10	189.32	126.03	63.29
GW-3	12/7/10	189.32	126.10	63.22
GW-3	3/8/11	189.32	125.55	63.77
GW-3	6/15/11	189.32	124.58	64.74
GW-3	9/29/11	189.32	124.20	65.12
GW-3	12/6/11	189.32	123.70	65.62

TABLE 1
GROUNDWATER MONITORING SUMMARY
Berry Street Mall Landfill
901 Galleria Blvd. Roseville, CA

Well ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
GW-4	4/7/99	206.32	116.64	89.68
GW-4	7/11/01	206.32	117.00	89.32
GW-4	9/12/02	206.32	117.34	88.98
GW-4	3/11/03	206.32	117.48	88.84
GW-4	6/23/03	206.32	117.41	88.91
GW-4	9/4/03	206.32	117.54	88.78
GW-4	10/23/03	206.32	117.60	88.72
GW-4	2/5/04	206.32	117.74	88.58
GW-4	6/3/04	206.32	116.86	89.46
GW-4	9/16/04	206.32	116.79	89.53
GW-4	12/2/04	206.32	116.97	89.35
GW-4	3/29/05	206.32	116.52	89.80
GW-4	6/21/05	206.32	116.42	89.90
GW-4	9/13/05	206.32	116.39	89.93
GW-4	12/13/05	206.32	116.05	90.27
GW-4	3/28/06	206.32	115.29	91.03
GW-4	6/28/06	206.32	115.27	91.05
GW-4	9/28/06	206.32	115.44	90.88
GW-4	11/21/06	206.32	115.58	90.74
GW-4	3/14/07	206.32	116.10	90.22
GW-4	5/8/07	206.32	116.11	90.21
GW-4	8/14/07	206.32	116.36	89.96
GW-4	11/6/07	206.32	116.56	89.76
GW-4	3/11/08	206.32	116.61	89.71
GW-4	6/11/08	206.32	116.61	89.71
GW-4	9/23/08	206.32	116.92	89.40
GW-4	12/9/08	206.32	117.41	88.91
GW-4	3/10/09	206.32	117.68	88.64
GW-4	6/8/09	206.32	117.43	88.89
GW-4	9/28/09	206.32	117.47	88.85
GW-4	12/14/09	206.32	118.01	88.31
GW-4	3/4/10	206.32	118.00	88.32
GW-4	6/3/10	206.32	117.45	88.87
GW-4	9/21/10	206.32	117.27	89.05
GW-4	12/7/10	206.32	117.63	88.69
GW-4	3/8/11	206.32	117.10	89.22
GW-4	6/15/11	206.32	115.90	90.42
GW-4	9/29/11	206.32	115.89	90.43
GW-4	12/6/11	206.32	116.13	90.19

TABLE 1
GROUNDWATER MONITORING SUMMARY
Berry Street Mall Landfill
901 Galleria Blvd. Roseville, CA

Well ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
GW-5	9/16/04	189.82	137.36	52.46
GW-5	12/2/04	189.82	137.29	52.53
GW-5	3/29/05	189.82	137.22	52.60
GW-5	6/21/05	189.82	141.97	47.85
GW-5	9/13/05	189.82	135.84	53.98
GW-5	12/13/05	189.82	135.44	54.38
GW-5	3/28/06	189.82	133.93	55.89
GW-5	6/28/06	189.82	133.93	55.89
GW-5	9/28/06	189.82	133.61	56.21
GW-5	11/21/06	189.82	133.34	56.48
GW-5	3/14/07	189.82	132.77	57.05
GW-5	5/8/07	189.82	132.27	57.55
GW-5	8/14/07	189.82	131.93	57.89
GW-5	11/6/07	189.82	131.74	58.08
GW-5	3/11/08	189.82	131.36	58.46
GW-5	6/11/08	189.82	130.71	59.11
GW-5	9/23/08	189.82	130.58	59.24
GW-5	12/9/08	189.82	130.56	59.26
GW-5	3/10/09	189.82	130.00	59.82
GW-5	6/8/09	189.82	129.18	60.64
GW-5	9/28/09	189.82	128.72	61.10
GW-5	12/14/09	189.82	128.95	60.87
GW-5	3/4/10	189.82	128.44	61.38
GW-5	6/3/10	189.82	127.68	62.14
GW-5	9/21/10	189.82	127.15	62.67
GW-5	12/7/10	189.82	127.37	62.45
GW-5	3/8/11	189.82	126.77	63.05
GW-5	6/15/11	189.82	125.60	64.22
GW-5	9/29/11	189.82	125.10	64.72
GW-5	12/6/11	189.82	124.82	65.00

TABLE 1
GROUNDWATER MONITORING SUMMARY
Berry Street Mall Landfill
901 Galleria Blvd. Roseville, CA

Well ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
GW-6	9/16/04	198.02	142.95	55.07
GW-6	12/2/04	198.02	142.94	55.08
GW-6	3/29/05	198.02	142.55	55.47
GW-6	6/21/05	198.02	136.38	61.64
GW-6	9/13/05	198.02	141.65	56.37
GW-6	12/13/05	198.02	141.31	56.71
GW-6	3/28/06	198.02	139.93	58.09
GW-6	6/28/06	198.02	139.52	58.50
GW-6	9/28/06	198.02	139.21	58.81
GW-6	11/21/06	198.02	138.96	59.06
GW-6	3/14/07	198.02	138.72	59.30
GW-6	5/8/07	198.02	138.29	59.73
GW-6	8/14/07	198.02	137.97	60.05
GW-6	11/6/07	198.02	137.80	60.22
GW-6	3/11/08	198.02	137.54	60.48
GW-6	6/11/08	198.02	136.90	61.12
GW-6	9/23/08	198.02	136.67	61.35
GW-6	12/9/08	198.02	136.64	61.38
GW-6	3/10/09	198.02	136.26	61.76
GW-6	6/8/09	198.02	135.45	62.57
GW-6	9/28/09	198.02	134.94	63.08
GW-6	12/14/09	198.02	135.21	62.81
GW-6	3/4/10	198.02	134.74	63.28
GW-6	6/3/10	198.02	134.03	63.99
GW-6	9/21/10	198.02	133.45	64.57
GW-6	12/7/10	198.02	133.70	64.32
GW-6	3/8/11	198.02	133.11	64.91
GW-6	6/15/11	198.02	131.97	66.05
GW-6	9/29/11	198.02	131.42	66.60
GW-6	12/6/11	198.02	131.17	66.85

Note: GW-2 was dry since installation in 1999 through 1Q-11.

Table 2
General Chemistry Parameters in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	SC	pH	Chloride	Sulfate	Dissolved Iron	COD	Nitrate (as N)	Total Sulfides	
GW-1	05/10/99	-	-	43.6	13	-	ND	1.14	ND	
GW-1	07/28/00	-	-	43.6	13	-	ND	1.16	1.02	
GW-1	07/11/01	-	-	43.6	13	-	ND	1.1	ND	
GW-1	04/19/02	-	-	-	-	-	-	-	-	
GW-1	06/11/02	-	-	54	11	ND	ND	1.4	ND	
GW-1	09/12/02	425	7.37	50	9.7	ND	ND	-	ND	
GW-1	11/11/02	-	-	57	11	ND	ND	ND	ND	
GW-1	03/11/03	453	7.31	58	11	ND	3.8	1.24	ND	
GW-1	06/23/03	441	7.38	120	11	0.05	ND	1.33	ND	
GW-1	09/04/03	431	7.41	55	10	ND	ND	1.35	ND	
GW-1	10/23/03	410	7.37	61	11	ND	ND	0.22	ND	
GW-1	02/05/04	431	7.27	59	11	ND	ND	1.3	ND	
GW-1	06/03/04	407	7.59	60	11	ND	11	1.3	ND	
GW-1	09/16/04	456	7.57	57	11	ND	ND	1.4	ND	
GW-1	12/02/04	503	7.25	54	11	ND	ND	1.4	ND	
GW-1	12/13/05	471	7.50	46	10	<0.1	<0.1	1.3	-	
GW-1	11/21/06	695	7.30	42	11	<0.10	<10	1.3	-	
GW-1	11/06/07	460.1	7.15	40.3	27.6	0.0244	<5	1.21	<1	
GW-1	12/09/08	415.9	6.86	31.8	11.5	<0.02	<5.0	1.18	0.022	
GW-1	12/14/09	433.6	6.82	32	13	<0.1	<5	1.8	<0.02	
GW-1	12/07/10	584	8.17	30	12.4	<0.50	-	1.17	<0.01	
GW-1	12/06/11	509.6	7.47	28.2	12.5	<0.20	7.6	5.58	<0.01	0.9
										1.18
GW-2	05/10/99	-	-	-	-	-	-	-	-	
GW-2	07/28/00	-	-	-	-	-	-	-	-	
GW-2	07/11/01	-	-	-	-	-	-	-	-	
GW-2	04/19/02	-	-	-	-	-	-	-	-	
GW-2	06/11/02	-	-	-	-	-	-	-	-	
GW-2	09/12/02	-	-	-	-	-	-	-	-	
GW-2	11/11/02	-	-	-	-	-	-	-	-	
GW-2	03/11/03	-	-	-	-	-	-	-	-	
GW-2	06/23/03	-	-	-	-	-	-	-	-	
GW-2	09/04/03	-	-	-	-	-	-	-	-	
GW-2	10/23/03	-	-	-	-	-	-	-	-	
GW-2	02/05/04	-	-	-	-	-	-	-	-	
GW-2	06/03/04	-	-	-	-	-	-	-	-	
GW-2	09/16/04	-	-	-	-	-	-	-	-	
GW-2	12/02/04	-	-	-	-	-	-	-	-	
GW-2	12/13/05	-	-	-	-	-	-	-	-	
GW-2	11/21/06	-	-	-	-	-	-	-	-	
GW-2	12/09/08	-	-	-	-	-	-	-	-	
GW-2	12/14/09	-	-	-	-	-	-	-	-	
GW-2	12/07/10	-	-	-	-	-	-	-	-	
GW-2	12/06/11	-	-	-	-	-	-	-	-	
GW-3	05/10/99	-	-	17.1	16.4	-	ND	0.33	ND	
GW-3	07/28/00	-	-	27.3	23.4	-	ND	0.54	ND	
GW-3	07/11/01	-	6.65	36	30	-	ND	0.58	ND	
GW-3	04/19/02	-	-	58	32	ND	ND	0.52	ND	
GW-3	06/11/02	-	-	30	56	ND	ND	11	ND	
GW-3	09/12/02	410	-	48	25	ND	ND	-	ND	
GW-3	11/11/02	-	-	57	28	ND	ND	ND	ND	
GW-3	03/11/03	631	7.38	49	24	ND	15	1.7	ND	
GW-3	06/23/03	675	7.70	120	27	ND	ND	0.47	ND	
GW-3	09/04/03	510	7.54	69	30	ND	ND	0.56	ND	
GW-3	10/23/03	506	7.37	62	31	ND	ND	ND	ND	
GW-3	02/05/04	627	7.26	51	28	ND	ND	0.48	ND	
GW-3	06/03/04	514	7.31	49	28	ND	ND	0.45	ND	
GW-3	09/16/04	610	7.37	54	32	ND	17	0.55	ND	
GW-3	12/02/04	622	7.41	47	31	ND	23	0.51	ND	
GW-3	12/13/05	691	7.31	33	28	<0.1	<0.1	0.67	-	

Table 2
General Chemistry Parameters in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	SC	pH	Chloride	Sulfate	Dissolved Iron	COD	Nitrate (as N)	Total Sulfides
GW-3	11/21/06	508	7.32	36	35	<0.10	<10	0.84	-
GW-3	11/06/07	637	7.52	32.5	49.3	0.0836	6	1.25	<1
GW-3	12/09/08	631	6.87	32.3	43.2	<0.02	<5.0	1.19	0.023
GW-3	12/14/09	649	6.89	28	46	<0.1	<5	1.7	<0.02
GW-3	12/07/10	602	7.3	30.1	69.5	<0.50	-	1.57	<0.01
GW-3	12/06/11	492.6	7.22	25.5	73.5	<0.2	7.2	6.37	<0.01
GW-4	05/10/99	-	-	37	16.4	-	ND	2.16	ND
GW-4	07/28/00	-	-	27	19.7	-	ND	2.28	1.02
GW-4	07/11/01	-	6.33	42	14	-	ND	1	ND
GW-4	04/19/02	-	-	61	25	ND	ND	0.6	ND
GW-4	06/11/02	-	-	15	45	ND	ND	11	ND
GW-4	09/12/02	521	7.17	42	19	ND	ND	-	ND
GW-4	11/11/02	-	-	54	17	ND	ND	ND	ND
GW-4	03/11/03	518	7.29	56	16	ND	9	0.93	ND
GW-4	06/23/03	620	7.05	110	18	ND	ND	1.31	ND
GW-4	09/04/03	426	7.30	58	16	ND	ND	1.08	ND
GW-4	10/23/03	622	7.24	67	17	ND	10	ND	ND
GW-4	02/05/04	529	7.41	66	16	ND	ND	0.85	ND
GW-4	06/03/04	429	7.26	52	18	ND	ND	1.4	ND
GW-4	09/16/04	385	7.38	55	20	ND	14	1.8	ND
GW-4	12/02/04	379	7.34	59	15	ND	21	0.86	ND
GW-4	12/13/05	601	7.43	54	14	<0.1	19	0.89	-
GW-4	11/21/06	516	7.71	41	17	<0.10	<10	2.0	-
GW-4	11/06/07	573	7.37	42.9	18.8	<0.02	7	1.13	<1
GW-4	12/09/08	580	6.87	39.8	13.9	<0.02	<5.0	1.01	0.025
GW-4	12/14/09	586	6.90	44	33	<0.1	8.0	<0.11	<0.02
GW-4	12/07/10	485	7.26	37.6	12	<0.50	-	0.63	<0.01
GW-4	12/06/11	588	7.31	23.7	14.2	<0.20	12.7	6.1	<0.01
GW-5	06/24/04	516	7.3	59	130	ND	ND	2.6	ND
GW-5	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS
GW-5	12/02/04	927	7.07	69	130	ND	15	2.4	ND
GW-5	12/13/05	501	7.38	49	140	<0.1	<0.1	2.4	-
GW-5	11/21/06	754	7.75	16	110	<0.10	18	1.7	-
GW-5	11/06/07	916	7.21	70.2	148	<0.02	<5	2.58	<1
GW-5	12/09/08	811	6.90	50.6	141	<0.02	<5.0	2.45	0.023
GW-5	12/14/09	839	6.91	54	146	<0.1	8.0	3.40	<0.02
GW-5	12/07/10	672	7.29	74.1	98.4	<0.50	-	2.22	<0.01
GW-5	12/06/11	546	7.17	66.9	84.3	<0.20	10	8.34	<0.01
GW-6	06/24/04	514	7.3	98	18	ND	18	1.1	ND
GW-6	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS
GW-6	12/02/04	473	7.32	73	15	ND	ND	1.2	ND
GW-6	12/13/05	641	7.20	130	14	<0.1	12	1.2	-
GW-6	11/21/06	749	7.87	56	14	<0.10	17	0.91	-
GW-6	11/06/07	582	7.24	55.5	17.1	<0.02	<5	0.56	<1
GW-6	12/09/08	539.2	6.67	45.7	13.0	<0.02	11.0	1.0	0.038
GW-6	12/14/09	540.1	6.84	57	13	<0.1	10	1.3	<0.02
GW-6	12/07/10	481	7.50	49.6	11.5	<0.50	-	0.69	<0.01
GW-6	12/06/11	533	7.14	45.2	12	<0.2	9	3.45	<0.01

Notes:
1. Concentrations in mg/L, except for SC and pH

Table 3
Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	05/10/99	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	07/28/00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	07/11/01	-	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	04/19/02	-	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	06/11/02	-	ND	-	[illegible]	ND	ND	-	[illegible]	[illegible]	**1.4**	ND	ND	ND	ND	-	-	[illegible]	-	[illegible]	-	[illegible]	[illegible]
GW-1	09/12/02	-	ND	-	[illegible]	ND	ND	-	-	-	**1.2**	ND	ND	ND	ND	-	-	[illegible]	-	[illegible]	-	ND	ND
GW-1	11/11/02	-	ND	-	-	ND	ND	ND	-	-	-	**1.4**	ND	ND	ND	ND	-	-	ND	-	-	ND	ND
GW-1	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/13/05	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	11/21/06	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	11/06/07	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	12/09/08	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	**1.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-1	12/14/09	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	**1.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-1	12/07/10	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-1	12/06/11	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-2	05/10/99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/28/00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/11/01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	04/19/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/12/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	03/11/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/04/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	10/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	02/05/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/03/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/16/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/02/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/13/05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/21/06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/09/08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/14/09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/07/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/06/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-3	05/10/99	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-
GW-3	07/28/00	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-
GW-3	07/11/01	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-
GW-3	04/19/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND
GW-3	06/11/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND
GW-3	09/12/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND
GW-3	11/11/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND
GW-3	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	Methylene chloride	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	1,1,1-Trichloroethane	1,2-Dichloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	1,3-Dichloropropene	1,1,2-Trichloroethane	Benzene	Chlorobenzene	Dichlorodifluoromethane	Ethylbenzene	Methyl ethyl ketone	Methyl isobutyl ketone	Methyl tert butyl ether	Toluene	Trichlorofluoromethane
GW-1	05/10/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-
GW-1	07/28/00	ND	**4.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-
GW-1	07/11/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-
GW-1	04/19/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-1	06/11/02	ND	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	ND	-
GW-1	09/12/02	ND	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	-	-	-	-	-	-	ND	-
GW-1	11/11/02	ND	-	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-
GW-1	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	10/23/03	ND	**0.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/02/04	ND	**0.88**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-1	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-1	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<5.0	<0.5	<0.5
GW-1	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-1	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-1	12/07/10	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-1	12/06/11	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-2	05/10/99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/28/00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/11/01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	04/19/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/12/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	03/11/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/04/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	10/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	02/05/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/03/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/16/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/02/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/13/05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/21/06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/09/08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/14/09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/07/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/06/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-3	05/10/99	ND	ND	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
GW-3	07/28/00	ND	**4.5**	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
GW-3	07/11/01	ND	ND	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
GW-3	04/19/02	ND	-	ND	ND	ND	0.52	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-	-
GW-3	06/11/02	ND	-	ND	ND	ND	0.54	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-	-
GW-3	09/12/02	ND	-	ND	ND	ND	0.5	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-	-
GW-3	11/11/02	ND	-	ND	ND	ND	0.74	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-	-
GW-3	03/11/03	ND	**2.5**	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/23/03	**0.37**	**1.7**	0.43	ND	ND	0.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/04/03	ND	**1.6**	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	10/23/03	ND	**1.7**	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	02/05/04	ND	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/03/04	ND	**2.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	12/02/04	ND	**4.0**	ND	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	05/10/99	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	**1.37**	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	07/28/00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	07/11/01	-	[illegible]	[illegible]	[illegible]	ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GW-1	04/19/02	-	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]
GW-1	06/11/02	-	[illegible]	[illegible]	ND	ND	[illegible]	[illegible]	[illegible]	ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ND	-	-	ND
GW-1	09/12/02	-	[illegible]	[illegible]	ND	ND	[illegible]	[illegible]	[illegible]	ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ND	-	-	ND
GW-1	11/11/02	-	[illegible]	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-1	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	09/16/04	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-1	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-1	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-1	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-1	12/07/10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-1	12/06/11	<1.0	<1.0	<1.0	<1.0	<0.51	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.51	<1.1
GW-2	05/10/99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/28/00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	07/11/01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	04/19/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/12/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/11/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	03/11/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/04/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	10/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	02/05/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	06/03/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	09/16/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/02/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/13/05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/21/06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/09/08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/14/09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/07/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/06/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-3	05/10/99	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-3	07/28/00	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-3	07/11/01	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-3	04/19/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-3	06/11/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-3	09/12/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-3	11/11/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-3	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/23/03	ND	ND	ND	**0.37**	ND	ND	ND	ND	ND	**0.35**	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	09/16/04	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	1,1-DCA	1,2-DCA	Benzene	Chloroform	Chloromethane	Methylene Chloride	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,1,1-TCA	1,1,2-TCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride	1,2,3-TCP	1,2,4-TMB	1,3,5-TMB	1,4-Dioxane	2-Butanone	Acetone
GW-3	12/13/05	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/21/06	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/06/07	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	12/09/08	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-3	12/14/09	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-3	12/07/10	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-3	12/06/11	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-4	05/10/99	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-	-	-
GW-4	07/28/00	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-	-	-
GW-4	07/11/01	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	-	-	-	-
GW-4	04/19/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND	ND
GW-4	06/11/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND	ND
GW-4	09/12/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND	ND
GW-4	11/11/02	-	ND	-	-	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	-	-	-	ND	ND	ND
GW-4	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/13/05	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	11/21/06	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	11/06/07	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	12/09/08	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-4	12/14/09	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-4	12/07/10	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-4	12/06/11	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-5	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-5	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6**	ND	ND	**0.71**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	12/13/05	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.3**	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	11/21/06	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	11/06/07	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	12/09/08	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	**1.0**	<0.50	<0.50	**0.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-5	12/14/09	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	**1.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-5	12/07/10	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-5	12/06/11	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-6	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-6	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	12/13/05	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	11/21/06	<5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	11/06/07	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	12/09/08	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-6	12/14/09	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
GW-6	12/07/10	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GW-5	12/06/11	-	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	benzene	methyl chloride	chloroform	1,2-DCA	carbon tetrachloride	trichloroethylene	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,1,1-TCA	vinyl chloride	1,1,2-TCA	PCE	1,1,2,2-TCE	chlorobenzene	1,4-DCB	1,3-DCB	1,2-DCB	1,2,4-TCB	1,2,3-TCB	1,2,4-TMB	1,3,5-TMB
GW-3	12/13/05	**0.51**	**2.2**	<0.5	<0.5	<0.5	0.54	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/21/06	**0.33**	**2.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/06/07	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	12/09/08	<0.50	**2.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<3.0	<0.50	<0.50
GW-3	12/14/09	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<3.0	<0.50	<0.50
GW-3	12/07/10	<1.0	**1.6**	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
GW-3	12/06/11	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
GW-4	05/10/99	**0.616**	ND	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
GW-4	07/28/00	ND	ND	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
GW-4	07/11/01	**0.61**	ND	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
GW-4	04/19/02	**1.2**	-	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-
GW-4	06/11/02	**1.1**	-	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-
GW-4	09/12/02	**0.9**	-	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-
GW-4	11/11/02	**0.87**	-	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	ND	-
GW-4	03/11/03	**1.1**	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/23/03	**0.67**	ND	ND	ND	ND	**0.18**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/04/03	**0.75**	**0.62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	10/23/03	**0.76**	**0.72**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	02/05/04	**0.82**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/03/04	ND	**0.69**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/16/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/02/04	**0.55**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-4	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-4	11/06/07	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<5.0	<0.5	<0.5
GW-4	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-4	12/14/09	**0.60**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-4	12/07/10	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-4	12/06/11	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-5	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-5	12/02/04	ND	**5.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	12/13/05	<0.5	**2.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-5	11/21/06	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-5	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<5.0	<0.5	<0.5
GW-5	12/09/08	<0.50	**2.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-5	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-5	12/07/10	<1.0	**0.76**	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-5	12/06/11	<1.0	**0.91**	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-6	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-6	12/02/04	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	12/13/05	<0.5	**0.91**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-6	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5
GW-6	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<5.0	<0.5	<0.5
GW-6	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-6	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<3.0	<0.50
GW-6	12/07/10	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0
GW-5	12/06/11	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0

Notes:
1. MW-2 ha
2. All units
3. ND = no
4. NS = no
5. - = not a

Table 3
Volatile Organic Compounds in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well No.	Date	Benzene	Chloroform	Dichloromethane	Ethylbenzene	Toluene	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Tetrachloroethene	Trichloroethene	Vinyl chloride	1,2,3-TCP	1,1,1-TCA	1,1,2-TCA	Methyl ethyl ketone	Methyl isobutyl ketone	Methyl tert butyl ether	Xylenes
GW-3	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-3	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-3	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-3	12/07/10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-3	12/06/11	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-4	05/10/99	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-4	07/28/00	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-4	07/11/01	-	-	-	ND	ND	-	-	ND	-	ND	ND	-	-	-	-	-	-	-	ND
GW-4	04/19/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-4	06/11/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-4	09/12/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-4	11/11/02	-	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	ND	-	-	ND
GW-4	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/23/03	ND	ND	ND	**0.24**	ND	ND	ND	ND	ND	**0.18**	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	10/23/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	02/05/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	06/03/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	09/16/04	ND	ND	ND	ND	**0.95**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-4	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	11/06/07	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-4	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-4	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-4	12/07/10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-4	12/06/11	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-5	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-5	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.77**	ND	ND	ND	ND	ND	ND	ND	ND
GW-5	12/13/05	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-5	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-5	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-5	12/07/10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-5	12/06/11	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-6	06/24/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	09/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW-6	12/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6	12/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	11/21/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW-6	12/09/08	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-6	12/14/09	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
GW-6	12/07/10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
GW-5	12/06/11	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

as been dry since it's installation in 1999.
in micrograms per liter (ug/L)
t detected
ot sampled
nalyzed

Table 4
Metals in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well	Date	Ag	As	Cd	Cr	Cu	Hg	Mg	Mn	Ni	Pb	Se	Zn	Cr(VI)
GW-1	07/11/01	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	-
GW-1	10/23/03	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	-
GW-1	02/05/04	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
GW-1	12/13/05	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	17	<0.020	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-1	11/21/06	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	17	<0.020	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-1	12/09/08	<0.010	<0.010	<0.010	<0.010	<0.020	<0.0002	16	<0.010	<0.010	<0.010	<0.020	0.0919	-
GW-1	12/14/09	<0.01	<0.002	<0.01	<0.01	<0.02	<0.0002	16	<0.02	<0.01	<0.05	<0.005	<0.02	<0.01
GW-1	12/07/10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0005	16	<0.50	<0.05	<0.05	<0.05	<0.03	<0.025
GW-1	12/06/11	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00052**	**15**	<0.10	<0.005	<0.005	<0.03	<0.06	<0.025
GW-2	07/11/01	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	10/23/03	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	02/05/04	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/13/05	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	11/21/06	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/09/08	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/14/09	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/07/10	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-2	12/06/11	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-3	07/11/01	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	-
GW-3	10/23/03	ND	ND	ND	ND	ND	ND	26	0.09	ND	ND	ND	ND	-
GW-3	02/05/04	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND
GW-3	12/13/05	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	20	0.032	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-3	11/21/06	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	24	0.19	0.013	<0.050	<0.0050	0.022	<0.010
GW-3	12/09/08	<0.010	<0.010	<0.010	<0.010	<0.020	<0.0002	24.4	0.0323	<0.010	<0.010	<0.020	<0.020	-
GW-3	12/14/09	<0.01	<0.002	<0.01	<0.01	<0.02	0.0002	24	0.042	<0.01	<0.05	<0.005	<0.02	<0.01
GW-3	12/07/10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0005	29	<0.50	<0.05	<0.05	<0.05	<0.05	<0.025
GW-3	12/06/11	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0007**	**26**	<0.10	<0.005	<0.005	<0.03	<0.06	<0.025
GW-4	07/11/01	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	-
GW-4	10/23/03	ND	ND	ND	ND	ND	ND	25	ND	ND	ND	ND	ND	-
GW-4	02/05/04	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	ND
GW-4	12/13/05	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	26	<0.020	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-4	11/21/06	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	25	<0.020	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-4	12/09/08	<0.010	0.032	<0.010	<0.010	<0.020	<0.0002	26.4	<0.010	<0.010	<0.010	<0.020	<0.020	-
GW-4	12/14/09	<0.01	<0.002	<0.01	<0.01	<0.02	<0.0002	27	<0.02	<0.01	<0.05	<0.005	<0.02	<0.01
GW-4	12/07/10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0005	26	<0.50	<0.05	<0.05	<0.05	<0.05	<0.025
GW-4	12/06/11	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00057**	**22**	<0.10	<0.005	<0.005	<0.03	<0.06	<0.025
GW-5	12/13/05	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	35	0.15	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-5	11/21/06	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	42	0.060	<0.010	<0.050	<0.0050	<0.020	<0.010

Table 4
Metals in Groundwater
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Well	Date	Ag	As	Cd	Cr	Cu	Hg	Mg	Mn	Ni	Pb	Se	Zn	Cr(VI)
GW-5	12/09/08	<0.010	<0.010	<0.010	<0.010	<0.020	<0.0002	36.6	0.107	0.0101	<0.010	<0.020	<0.020	-
GW-5	12/14/09	<0.01	<0.002	<0.01	<0.01	<0.02	0.0002	35	<0.02	<0.01	<0.05	<0.005	<0.02	<0.01
GW-5	12/07/10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0005	40	<0.50	<0.05	<0.05	<0.05	<0.05	<0.025
GW-5	12/06/11	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00065**	**43**	<0.10	<0.005	<0.005	<0.03	<0.06	<0.025
GW-6	12/13/05	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	26	0.041	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-6	11/21/06	<0.010	<0.0020	<0.010	<0.010	<0.020	<0.0010	21	<0.020	<0.010	<0.050	<0.0050	<0.020	<0.010
GW-6	12/09/08	<0.010	0.0131	<0.010	0.0264	<0.020	<0.0002	22	0.159	0.0254	<0.010	<0.020	0.120	-
GW-6	12/14/09	<0.01	<0.002	<0.01	<0.01	<0.02	0.0008	22	<0.02	<0.01	<0.05	<0.005	<0.02	<0.01
GW-6	12/07/10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0005	22	<0.50	<0.05	<0.05	<0.05	<0.05	<0.025
GW-6	12/06/11	<0.005	<0.005	<0.005	<0.005	<0.005	**0.095**	**20**	<0.10	<0.005	<0.005	<0.03	**0.035**	**0.057**

Notes:
1. All concentrations in miiligrams per liter (mg/L)
2. ND = not detected at the indicated detection limit
3. - = not analyzed
4. GW-2 has been dry since its installation in 1999

Table 5
Surface Water Analytical Summary
Berry Street Mall Landfill
901 Galleria Blvd, Roseville, CA

Location	Date	SC	pH	TDS	Dissolved Iron	Chloride	Nitrate, as N	Sulfate, as SO4
S-1	03/01/04	-	-	75	ND	1.0	ND	ND
S-1	12/08/04	-	-	57	-	0.73	ND	ND
S-1	12/19/05	34	9.15	220	<0.10	23	3.1	4.1
S-1	10/13/09	43.2	7.98	58	<20	-	0.96	1.3
S-2	03/01/04	-	-	100	ND	1.3	ND	ND
S-2	12/08/04	-	-	56	-	ND	ND	ND
S-2	12/19/05	52	9.47	180	<0.10	15	0.47	3.2
S-2	10/13/09	51.6	7.67	72	<20	-	0.85	1.7

APPENDIX A

FIELD SAMPLING DATA SHEETS

DOULOS ENVIRONMENTAL, INC.
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Berry Street Landfill
901 Galleria Blvd.
Roseville, CA

Date: 12.6.11

Project No.:

Recorded by: Jerry Gonzales

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
GW-1	949		131.33	151.35				
GW-2	10:15		120.93	122.29				
GW-3	1035		123.70	151.64				
GW-4	1030		116.13	123.50				
GW-5	1023		124.82	156.58				
GW-6	959		131.17	164.59				

Notes:

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Western Resource Mgmt

Sampling Date: 12-6-11

Site: Berry Street Landfill

Project No.:

Well Designation: EW-1

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? 36" NO (YES) If no, see remarks
Height of well casing riser (in inches): 36" Riser
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer X Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer _____Centrifugal pump
Sampled with: Disposable bailer _____ Teflon bailer _____ Disposable Tubing_____

Well Diameter: 2" _____ 4" _____ 6" 5" 8" _____
Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 947
Depth of well: 151.35
Depth to water: 131.33

Recharge Measurement
Time: 1118
Depth to water: 132.50

Calculated purge: 60 gals
Actual purge: 60

Start purge: 1045 Sampling time: 1120

Time	Temperature	E.C.	pH	Turbidity	Volume
10:55	18.1	501.6	7.54		1
1105	19.4	512.8	7.38		2
1115	18.6	514.2	7.42		3

Sample appearance: Clear Lock: MASTER

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks:

Signature:

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: _____ Sampling Date: 12-6-11

Site: Berry Street Landfill Project No.: _____

Well Designation: EW-3

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 36" Nsg
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good ✓ Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer ✓ Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer _____Centrifugal pump
Sampled with: Disposable bailer _____ Teflon bailer _____ Disposable Tubing ✓

Well Diameter:	2"	4"	5"	8"
Purge Vol. Multiplier:	0.16	0.65	1.47	2.61 gal/ft.

Initial Measurement
Time: 1035
Depth of well: 151.64
Depth to water: 123.70

Recharge Measurement
Time: 1423
Depth to water: 124.61

Calculated purge: 79.6
Actual purge: 80

Start purge: 1350 Sampling time: 1425

Time	Temperature	E.C.	pH	Turbidity		Volume
1400	21.3	472.9	6.92			1
1410	22.2	504	7.34			2
1420	22.0	501	7.40			3

Sample appearance: Clear Lock: Master

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: [signature]

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: _____ Sampling Date: 12-6-11

Site: Berry Street Landfill Project No.: _____

Well Designation: 5 W-4

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 36" Riser
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP_____
12" CNI_____ 36" CNI_____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent_____ Good_____ Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer X Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer _____Centrifugal pump
Sampled with: Disposable bailer _____ Teflon bailer _____ Disposable Tubing_____

Well Diameter: 2"_____ 4"_____ ~~6~~ 5" 8"_____
Purge Vol. Multiplier: 0.16 0.65 ~~1.47~~ 2.61 gal/ft.

Initial Measurement
Time: 1030
Depth of well: 123.50
Depth to water: 116.13

Recharge Measurement
Time: 1258
Depth to water: 117.43

Calculated purge: 21.0
Actual purge: 21.5

Start purge: 1445 Sampling time: 1500

Time	Temperature	E.C.	pH	Turbidity		Volume
1447	18.8	5930	7.22			1
1449	18.8	5955	7.31			2
1451	18.0	5959	7.39			3

Sample appearance: Clear Lock: Master

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Western Resource Mgmt

Sampling Date: 12-6-11

Site: Berry Street Landfill

Project No.:

Well Designation: BW-5

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 36" Riser
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good_____ Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer X Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer _____Centrifugal pump
Sampled with: Disposable bailer _____ Teflon bailer _____ Disposable Tubing_____

Well Diameter: 2" X 4" _____ 6" _____ 8" _____
Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 1023
Depth of well: 156.88
Depth to water: 124.82

Recharge Measurement
Time: 1254
Depth to water: 125.92

Calculated purge: 15.3
Actual purge: 15.5

Start purge: 1245 Sampling time: 1300

Time	Temperature	E.C.	pH	Turbidity		Volume
1250	20.8	520	6.98			1
1253	21.5	551	7.20			2
1256	21.9	567	7.33			3

Sample appearance: Clear Lock: MASTER

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Western Resource Mgmt

Sampling Date: 12-6-11

Site: Berry Street Landfill

Project No.:

Well Designation: GW-6

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO ~~YES~~ If no, see remarks
Height of well casing riser (in inches): 36" riser
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer X Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer _____Centrifugal pump
Sampled with: Disposable bailer _____ Teflon bailer _____ Disposable Tubing X

Well Diameter:	2" X	4"	6"	8"
Purge Vol. Multiplier:	0.16	0.65	1.47	2.61 gal/ft.

Initial Measurement
Time: 959
Depth of well: 167.59
Depth to water: 131.17

Recharge Measurement
Time: 1210
Depth to water: 130.08

Calculated purge: 17.4
Actual purge: 18.0

Start purge: 1155 Sampling time: 1212

Time	Temperature	E.C.	pH	Turbidity	Volume
1158	19.5	584.0	6.92		1
1203	21.1	420.5	7.21		2
1208	21.6	594.5	7.28		3

Sample appearance: Clear Lock: MASTER

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

APPENDIX B

LABORATORY ANALYTICAL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

02 April 2012

Tom Ballard
Taber Consultants
3911 West Capitol Ave.
West Sacramento, CA 95691

RE: Annual GMR_Berry

Enclosed are the results of analyses for samples received by the laboratory on 12/07/11 10:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	T111836-01	Water	12/06/11 11:20	12/07/11 10:18
GW-3	T111836-02	Water	12/06/11 14:25	12/07/11 10:18
GW-4	T111836-03	Water	12/06/11 15:00	12/07/11 10:18
GW-5	T111836-04	Water	12/06/11 13:00	12/07/11 10:18
GW-6	T111836-05	Water	12/06/11 12:12	12/07/11 10:18

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-1

T111836-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Arsenic	ND	0.005	mg/l	1	1120713	12/07/11	12/09/11	EPA 200.7	
Cadmium	ND	0.005	"	"	"	"	"	"	
Chromium	ND	0.005	"	"	"	"	"	"	
Copper	ND	0.005	"	"	"	"	"	"	
Lead	ND	0.005	"	"	"	"	"	"	
Nickel	ND	0.005	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Selenium	ND	0.030	"	"	"	"	"	"	
Zinc	ND	0.030	"	"	"	"	"	"	
Iron	ND	0.20	"	"	"	"	12/16/11	"	FILT
Manganese	ND	0.10	"	"	"	"	12/09/11	"	
Magnesium	**15**	0.10	"	"	"	"	12/09/11	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	**1.4**	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-1

T111836-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Dibromomethane	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-1

T111836-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2,3-Trichloropropane	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Chemical Oxygen Demand	**7.6**	2.0	mg/l	1	1121404	12/14/11	12/14/11	EPA 410.4	
Hexavalent Chromium	ND	0.025	"	"	1120703	12/07/11	12/07/11	EPA 7196A	
Sulfide	ND	10	ug/l	"	1121318	12/13/11	12/20/11	EPA 376.2/4500-S 2-G	
Anions by EPA Method 300.0									
Chloride	**28.2**	0.500	mg/l	1	1120706	12/07/11	12/07/11	EPA 300.0	
Sulfate as SO4	**12.5**	0.500	"	"	"	"	"	"	
Nitrate as NO3	**5.58**	0.500	"	"	"	"	"	"	

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Daniel J Chavez

Daniel Chavez, Project Manager

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3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-1

T111836-01RE1 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	2010909	01/09/12	01/13/12	EPA 7470A Water	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-3

T111836-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Arsenic	ND	0.005	mg/l	1	1120713	12/07/11	12/09/11	EPA 200.7	
Cadmium	ND	0.005	"	"	"	"	"	"	
Chromium	ND	0.005	"	"	"	"	"	"	
Copper	ND	0.005	"	"	"	"	"	"	
Lead	ND	0.005	"	"	"	"	"	"	
Nickel	ND	0.005	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Selenium	ND	0.030	"	"	"	"	"	"	
Zinc	ND	0.030	"	"	"	"	"	"	
Iron	ND	0.20	"	"	"	"	12/16/11	"	FILT
Manganese	ND	0.10	"	"	"	"	12/09/11	"	
Magnesium	**26**	0.10	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-3

T111836-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2-Dichlorobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-3

T111836-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,3,5-Trimethylbenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Chemical Oxygen Demand	**7.2**	2.0	mg/l	1	1121404	12/14/11	12/14/11	EPA 410.4	
Hexavalent Chromium	ND	0.025	"	"	1120703	12/07/11	12/07/11	EPA 7196A	
Sulfide	ND	10	ug/l	"	1121318	12/13/11	12/20/11	EPA 376.2/4500-S 2-G	
Anions by EPA Method 300.0									
Chloride	**25.5**	0.500	mg/l	1	1120706	12/07/11	12/07/11	EPA 300.0	
Sulfate as SO4	**73.5**	0.500	"	"	"	"	"	"	
Nitrate as NO3	**6.37**	0.500	"	"	"	"	"	"	

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Daniel J Chavez

Daniel Chavez, Project Manager

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-3

T111836-02RE1 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	2010909	01/09/12	01/13/12	EPA 7470A Water	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-4

T111836-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Arsenic	ND	0.005	mg/l	1	1120713	12/07/11	12/09/11	EPA 200.7	
Cadmium	ND	0.005	"	"	"	"	"	"	
Chromium	ND	0.005	"	"	"	"	"	"	
Copper	ND	0.005	"	"	"	"	"	"	
Lead	ND	0.005	"	"	"	"	"	"	
Nickel	ND	0.005	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Selenium	ND	0.030	"	"	"	"	"	"	
Zinc	ND	0.030	"	"	"	"	"	"	
Iron	ND	0.20	"	"	"	"	12/16/11	"	FILT
Manganese	ND	0.10	"	"	"	"	12/09/11	"	
Magnesium	**22**	0.10	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-4

T111836-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2-Dichlorobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-4

T111836-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,3,5-Trimethylbenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Chemical Oxygen Demand	**7.7**	2.0	mg/l	1	1121404	12/14/11	12/14/11	EPA 410.4	
Hexavalent Chromium	ND	0.025	"	"	1120703	12/07/11	12/07/11	EPA 7196A	
Sulfide	ND	10	ug/l	"	1121318	12/13/11	12/20/11	EPA 376.2/4500-S 2-G	
Anions by EPA Method 300.0									
Chloride	**23.7**	0.500	mg/l	1	1120706	12/07/11	12/07/11	EPA 300.0	
Sulfate as SO4	**14.2**	0.500	"	"	"	"	"	"	
Nitrate as NO3	**6.10**	0.500	"	"	"	"	"	"	

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Daniel J Chavez

Daniel Chavez, Project Manager

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-4

T111836-03RE1 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	2010909	01/09/12	01/13/12	EPA 7470A Water	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-5

T111836-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Arsenic	ND	0.005	mg/l	1	1120713	12/07/11	12/09/11	EPA 200.7	
Cadmium	ND	0.005	"	"	"	"	"	"	
Chromium	ND	0.005	"	"	"	"	"	"	
Copper	ND	0.005	"	"	"	"	"	"	
Lead	ND	0.005	"	"	"	"	"	"	
Nickel	ND	0.005	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Selenium	ND	0.030	"	"	"	"	"	"	
Zinc	ND	0.030	"	"	"	"	"	"	
Iron	ND	0.20	"	"	"	"	12/16/11	"	FILT
Manganese	ND	0.10	"	"	"	"	12/09/11	"	
Magnesium	**43**	0.10	"	"	"	"	12/09/11	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-5

T111836-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2-Dichlorobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	**0.91**	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-5

T111836-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,3,5-Trimethylbenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Chemical Oxygen Demand	**10**	2.0	mg/l	1	1121404	12/14/11	12/14/11	EPA 410.4	
Hexavalent Chromium	ND	0.025	"	"	1120703	12/07/11	12/07/11	EPA 7196A	
Sulfide	ND	10	ug/l	"	1121318	12/13/11	12/20/11	EPA 376.2/4500-S 2-G	
Anions by EPA Method 300.0									
Chloride	**66.9**	5.00	mg/l	10	1120706	12/07/11	12/07/11	EPA 300.0	
Sulfate as SO4	**84.3**	5.00	"	"	"	"	"	"	
Nitrate as NO3	**8.34**	0.500	"	1	"	"	12/07/11	"	

SunStar Laboratories, Inc.

Daniel J Chavez

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-5

T111836-04RE1 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	2010909	01/09/12	01/13/12	EPA 7470A Water	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-6

T111836-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Arsenic	ND	0.005	mg/l	1	1120713	12/07/11	12/09/11	EPA 200.7	
Cadmium	ND	0.005	"	"	"	"	"	"	
Chromium	ND	0.005	"	"	"	"	"	"	
Copper	ND	0.005	"	"	"	"	"	"	
Lead	ND	0.005	"	"	"	"	"	"	
Nickel	ND	0.005	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Selenium	ND	0.030	"	"	"	"	"	"	
Zinc	**0.035**	0.030	"	"	"	"	"	"	
Iron	ND	0.20	"	"	"	"	12/16/11	"	FILT
Manganese	ND	0.10	"	"	"	"	12/09/11	"	
Magnesium	**20**	0.10	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-6

T111836-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2-Dichlorobenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-6

T111836-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,3,5-Trimethylbenzene	ND	1.0	ug/l	1	1120704	12/07/11	12/07/11	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Chemical Oxygen Demand	**9.0**	2.0	mg/l	1	1121404	12/14/11	12/14/11	EPA 410.4	
Hexavalent Chromium	**0.057**	0.025	"	"	1120703	12/07/11	12/07/11	EPA 7196A	
Sulfide	ND	10	ug/l	"	1121318	12/13/11	12/20/11	EPA 376.2/4500-S 2-G	
Anions by EPA Method 300.0									
Chloride	**45.2**	0.500	mg/l	1	1120706	12/07/11	12/07/11	EPA 300.0	
Sulfate as SO4	**12.0**	0.500	"	"	"	"	"	"	
Nitrate as NO3	**3.45**	0.500	"	"	"	"	"	"	

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Taber Consultants	Project: Annual GMR_Berry	
3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

GW-6

T111836-05RE1 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	**0.64**	0.50	ug/l	1	2010909	01/09/12	01/13/12	EPA 7470A Water	

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West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120713 - EPA 3010A										
Blank (1120713-BLK1)				Prepared: 12/07/11	Analyzed: 12/09/11					
Arsenic	ND	0.005	mg/l							
Cadmium	ND	0.005	"							
Chromium	ND	0.005	"							
Copper	ND	0.005	"							
Lead	ND	0.005	"							
Nickel	ND	0.005	"							
Silver	ND	0.005	"							
Selenium	ND	0.030	"							
Zinc	ND	0.030	"							
Iron	ND	0.20	"							
Manganese	ND	0.10	"							
Magnesium	ND	0.10	"							
LCS (1120713-BS1)				Prepared: 12/07/11	Analyzed: 12/09/11					
Arsenic	0.098	0.005	mg/l	0.100		97.8	85-115			
Cadmium	0.096	0.005	"	0.100		95.6	85-115			
Chromium	0.097	0.005	"	0.100		97.3	85-115			
Copper	0.099	0.005	"	0.100		99.2	85-115			
Lead	0.097	0.005	"	0.100		96.8	85-115			
Nickel	0.097	0.005	"	0.100		97.5	85-115			
Silver	1.91	0.005	"	0.100		NR	85-115			QM-14
Selenium	0.096	0.030	"	0.100		96.1	85-115			
Zinc	0.097	0.030	"	0.100		96.8	85-115			
Iron	0.099		"	0.100		99.2	85-115			
Manganese	0.099	0.10	"	0.100		98.6	0-200			
Magnesium	0.116	0.10	"	0.100		116	0-200			
LCS Dup (1120713-BSD1)				Prepared: 12/07/11	Analyzed: 12/09/11					
Arsenic	0.095	0.005	mg/l	0.100		95.0	85-115	2.92	20	
Cadmium	0.093	0.005	"	0.100		92.6	85-115	3.20	20	
Chromium	0.095	0.005	"	0.100		94.5	85-115	2.90	20	
Copper	0.096	0.005	"	0.100		96.0	85-115	3.34	20	
Lead	0.092	0.005	"	0.100		92.1	85-115	4.95	20	
Nickel	0.094	0.005	"	0.100		94.1	85-115	3.51	20	
Silver	1.87	0.005	"	0.100		NR	85-115	2.12	20	QM-14
Selenium	0.094	0.030	"	0.100		94.0	85-115	2.25	20	

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Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120713 - EPA 3010A										
LCS Dup (1120713-BSD1)				Prepared: 12/07/11 Analyzed: 12/09/11						
Zinc	0.094	0.030	mg/l	0.100		94.0	85-115	2.93	20	
Iron	0.090		"	0.100		89.8	85-115	9.95	20	
Manganese	0.096	0.10	"	0.100		95.6	0-200	3.04	200	
Magnesium	0.113	0.10	"	0.100		113	0-200	2.58	200	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120708 - EPA 7470A Water										
Blank (1120708-BLK1)				Prepared: 12/07/11		Analyzed: 12/14/11				
Mercury	ND	0.50	ug/l							
LCS (1120708-BS1)				Prepared: 12/07/11		Analyzed: 12/14/11				
Mercury	5.04	0.50	ug/l	5.00		101	75-125			
Matrix Spike (1120708-MS1)		**Source: T111836-01**		Prepared: 12/07/11		Analyzed: 12/14/11				
Mercury	5.16	0.50	ug/l	5.00	0.520	92.9	75-125			
Matrix Spike Dup (1120708-MSD1)		**Source: T111836-01**		Prepared: 12/07/11		Analyzed: 12/14/11				
Mercury	5.09	0.50	ug/l	5.00	0.520	91.4	75-125	1.40	20	
Batch 2010909 - EPA 7470A Water										
Blank (2010909-BLK1)				Prepared: 01/09/12		Analyzed: 01/13/12				
Mercury	ND	0.50	ug/l							
LCS (2010909-BS1)				Prepared: 01/09/12		Analyzed: 01/12/12				
Mercury	5.62	0.50	ug/l	5.00		112	75-125			
Matrix Spike (2010909-MS1)		**Source: T111836-01RE1**		Prepared: 01/09/12		Analyzed: 01/12/12				
Mercury	5.69	0.50	ug/l	5.00	ND	114	75-125			
Matrix Spike Dup (2010909-MSD1)		**Source: T111836-01RE1**		Prepared: 01/09/12		Analyzed: 01/12/12				
Mercury	5.60	0.50	ug/l	5.00	ND	112	75-125	1.54	20	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120704 - EPA 5030 GCMS										
Blank (1120704-BLK1)				Prepared & Analyzed: 12/07/11						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120704 - EPA 5030 GCMS										
Blank (1120704-BLK1)				Prepared & Analyzed: 12/07/11						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	*7.79*		*"*	*8.00*		*97.4*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.68*		*"*	*8.00*		*96.0*	*81-136*			
Surrogate: Toluene-d8	*7.97*		*"*	*8.00*		*99.6*	*88.8-117*			

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West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120704 - EPA 5030 GCMS										
LCS (1120704-BS1)				Prepared & Analyzed: 12/07/11						
Chlorobenzene	20.9	1.0	ug/l	20.0		105	75-125			
1,1-Dichloroethene	23.7	1.0	"	20.0		118	75-125			
Trichloroethene	23.8	1.0	"	20.0		119	75-125			
Benzene	22.3	0.50	"	20.0		112	75-125			
Toluene	21.7	0.50	"	20.0		108	75-125			
Surrogate: 4-Bromofluorobenzene	*7.36*		*"*	*8.00*		*92.0*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.98*		*"*	*8.00*		*112*	*81-136*			
Surrogate: Toluene-d8	*7.55*		*"*	*8.00*		*94.4*	*88.8-117*			
LCS Dup (1120704-BSD1)				Prepared & Analyzed: 12/07/11						
Chlorobenzene	20.4	1.0	ug/l	20.0		102	75-125	2.22	20	
1,1-Dichloroethene	23.4	1.0	"	20.0		117	75-125	1.19	20	
Trichloroethene	21.5	1.0	"	20.0		108	75-125	10.2	20	
Benzene	21.6	0.50	"	20.0		108	75-125	3.51	20	
Toluene	21.2	0.50	"	20.0		106	75-125	2.29	20	
Surrogate: 4-Bromofluorobenzene	*7.49*		*"*	*8.00*		*93.6*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.11*		*"*	*8.00*		*114*	*81-136*			
Surrogate: Toluene-d8	*7.56*		*"*	*8.00*		*94.5*	*88.8-117*			

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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120703 - General Preparation										
Blank (1120703-BLK1)				Prepared & Analyzed: 12/07/11						
Hexavalent Chromium	ND	0.025	mg/l							
LCS (1120703-BS1)				Prepared & Analyzed: 12/07/11						
Hexavalent Chromium	0.0440	0.025	mg/l	0.0500		88.0	85-115			
Matrix Spike (1120703-MS1)		**Source: T111836-01**		Prepared & Analyzed: 12/07/11						
Hexavalent Chromium	0.0510	0.025	mg/l	0.0500	0.0120	78.0	85-115			QM-05
Matrix Spike Dup (1120703-MSD1)		**Source: T111836-01**		Prepared & Analyzed: 12/07/11						
Hexavalent Chromium	0.0580	0.025	mg/l	0.0500	0.0120	92.0	85-115	12.8	20	
Batch 1121318 - General Preparation										
Blank (1121318-BLK1)				Prepared: 12/13/11 Analyzed: 12/20/11						
Sulfide	ND	10	ug/l							
LCS (1121318-BS1)				Prepared: 12/13/11 Analyzed: 12/20/11						
Sulfide	20.0	10	ug/l	20.0		100	80-120			
Matrix Spike (1121318-MS1)		**Source: T111881-04**		Prepared: 12/13/11 Analyzed: 12/20/11						
Sulfide	6.00	10	ug/l	20.0	25.0	NR	75-125			QM-07
Matrix Spike Dup (1121318-MSD1)		**Source: T111881-04**		Prepared: 12/13/11 Analyzed: 12/20/11						
Sulfide	9.00	10	ug/l	20.0	25.0	NR	75-125	40.0	20	QM-07
Batch 1121404 - General Preparation										
Blank (1121404-BLK1)				Prepared & Analyzed: 12/14/11						
Chemical Oxygen Demand	ND	2.0	mg/l							

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West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1121404 - General Preparation										
Duplicate (1121404-DUP1)		**Source: T111836-01**		Prepared & Analyzed: 12/14/11						
Chemical Oxygen Demand	4.50	2.0	mg/l		7.60			51.2	40	QR-05

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Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120706 - General Preparation										
Blank (1120706-BLK1)				Prepared & Analyzed: 12/07/11						
Chloride	ND	0.500	mg/l							
Sulfate as SO4	ND	0.500	"							
Nitrate as NO3	ND	0.500	"							
LCS (1120706-BS1)				Prepared & Analyzed: 12/07/11						
Chloride	9.80	0.500	mg/l	10.0		98.0	80-120			
Sulfate as SO4	10.1	0.500	"	10.0		101	80-120			
Nitrate as NO3	10.7	0.500	"	11.1		96.4	80-120			
Matrix Spike (1120706-MS1)		**Source: T111836-01**		Prepared & Analyzed: 12/07/11						
Chloride	37.6	0.500	mg/l	10.0	28.2	94.6	80-120			
Sulfate as SO4	22.5	0.500	"	10.0	12.5	99.9	80-120			
Nitrate as NO3	16.4	0.500	"	11.1	5.58	97.8	80-120			
Matrix Spike Dup (1120706-MSD1)		**Source: T111836-01**		Prepared & Analyzed: 12/07/11						
Chloride	37.5	0.500	mg/l	10.0	28.2	92.9	80-120	0.447	20	
Sulfate as SO4	22.3	0.500	"	10.0	12.5	98.2	80-120	0.763	20	
Nitrate as NO3	16.2	0.500	"	11.1	5.58	95.8	80-120	1.33	20	

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3911 West Capitol Ave.	Project Number: [none]	**Reported:**
West Sacramento CA, 95691	Project Manager: Tom Ballard	04/02/12 12:18

Notes and Definitions

QR-05	The RPD between the sample and sample duplicate was outside control limits. The lack of reproducibility may be attributed to the sample matrix.
QM-14	The LCS and LCSD were above acceptance criteria. The method blank and sample were ND for the analyte in question. The CCV was within acceptance criteria. No negative impact on data is expected.
QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
FILT	The sample was filtered prior to analysis.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

make sure not to forget Cr(VI) Chromium Hexavalent

TD. TAT

BC

COC # / Lab No. J111836 12-7-11

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Tom Ballard (to email address's)**

California EDF Report? ☑ Yes ☐ No

Company / Address: **8036 Red Fern Court, Antelope, CA 95843**

Sampling Company Log Code: **WRMC**

Global ID: **L10003133161**

Phone #: **916-226-5072** Fax #: **916-313-3439**

EDF Deliverable To (Email Address): tballard@geologicalanalytics.com

Project #: P.O. #:

please email a copy to:

Project Name: **AnnualGMR_Berry**

Sampler Signature:

Project Address: **901 Harding Blvd**
Roseville, CA

	Sample ID	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	H_2SO_4	Matrix: Water	Soil	Air	Volatile Organics Full List (EPA 8260B)	Nitrate (as N), Chloride, Sulfate (300.0)	Chloride, Sulfate	Total Sulfides (method SM 4500-S)	COD (method SM 5220D)	Hg (method 245.2)	Dissolved Fe (method 200.7)	Ag, As, Cd, Cr (total), Cu (method 200.7)	Mg, Mn, Ni (method 200.7)	Pb, Se, Zn (method 200.7)	Cr(VI) (method 7196A)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	TAT
01	GW-1	GW-1	12-6-11	1120	3		5				2	2	1	X			X	X		X	X	X	X	X	X	X	X						
02	GW-3	GW-3		1425	3		5				2	2	1	X			X	X		X	X	X	X	X	X	X	X						
03	GW-4	GW-4		1500	3		5				2	2	1	X			X	X		X	X	X	X	X	X	X	X						
04	GW-5	GW-5		1300	3		5				2	2	1	X			X	X		X	X	X	X	X	X	X	X						
05	GW-6	GW-6		1212	3		5				2	2	1	X			X	X		X	X	X	X	X	X	X	X						

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ 1 wk

Relinquished by:	Date	Time	Received by:
			12-6-11 3:10 pm
Relinquished by:	Date	Time	Received by:
Relinquished by: GSO	Date 12-7-11	Time 10:18	Received by Laboratory:

Remarks:
please deliver to both email address's PDF,EDF and Excel spreadsheet

please save file(s), with date_Project_Lab no - example
2011_12_02_AnnualGMR_Berry_12345

Bill to: Daniel Sheehan, Greener Globe
P.O. Box 3248 Rocklin, Ca 95677

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time
5.3	BC	12-7-11	10:18

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

BATCH # T111836

Client Name: TABER

Project: ANNUAL GMR - BELLY

Received by: BRIAN

Date/Time Received: 12-7-11 10:18

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

Total number of coolers received 1

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 5.5 °C +/- the CF (- 0.2°C) = 5.3 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☒ Yes	☐ No*	☐ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 12-7-11

Comments:

APPENDIX C

STATISTICAL ANALYSIS DATA

▼File: C:\Users\Linda\SYSTAT_12\Data\BSMLF2011-MW1MW4.syz

Number of Variables : 13
Number of Cases : 20

SYSTAT Rectangular file C:\Users\Linda\SYSTAT_12\Data\BSMLF2011-MW1MW4.syz,
created Thu Mar 15 10:35:18 2012, contains variables:

SAMPLE_ID$	DATE	CHLORIDE	COD	DISSOLVED_FE	NITRATE
SULFATE	CARBON_TET	DCFM	CHLOROFORM	CRVI	MERCURY
ZINC					

Successfully saved file C:\Users\Linda\SYSTAT_12\Data\BSMLF2011-MW1MW4.syz
Processed 14 Variables and 20 Cases.

▼Descriptive Statistics

	CHLORIDE	COD	DISSOLVED_FE	NITRATE	SULFATE	DCFM	CRVI	MERCURY	ZINC	MG
N of Cases	20	20	20	20	20	20	10	12	12	12
Minimum	28.200	0.100	0.020	0.110	10.000	0.500	0.010	0.000	0.020	15.000
Maximum	60.000	21.000	24.400	5.600	32.000	0.880	0.025	0.001	0.092	27.000
Arithmetic Mean	43.730	8.165	2.352	1.963	15.210	0.544	0.016	0.001	0.044	20.783
Standard Deviation	10.549	5.059	6.827	1.596	5.781	0.111	0.008	0.000	0.028	4.996
Shapiro-Wilk Statistic	0.933	0.866	0.373	0.718	0.768	0.454	0.640	0.810	0.793	0.803
Shapiro-Wilk p-value	0.174	0.010	0.000	0.000	0.000	0.000	0.000	0.012	0.008	0.010

Berry Street Mall Landfill December 2011 Parametric Prediction Limit Data						
Constituent	Mean Up-gradient Concentration (mg/l)	Standard Deviation of Up-gradient Well Results	Number or Future Observations to be predicted	Number of up-gradient observations	t-statistic	Prediction Limit (mg/l)
Chloride	43.7	10.55	3	20	1.73	55

Notes: Parametric concentration limits were calculated in accordance with "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance" (USEPA, July 1992) using the following formula:

$$\overline{X} + t_{(n-1,k,.95)} S \sqrt{\frac{1}{m} + \frac{1}{n}}$$

$\overline{X}$ = Mean constituent concentration detected in up-gradient wells since June 2004.
t = Bonferroni t-statistic provided in a look up table (Appendix C).
S = Standard deviation of up-gradient well constituent concentrations.
k = number of sampling periods to be compared to prediction limit (k=1)
m = number of independent samples to be compared to prediction limit in sampling period k. (m=3)
n = number of observations for up-gradient wells considered (n=16)
COD = Chemical Oxygen Demand
Mean concentrations and standard deviations were calculated using the Systat 12 software program.
Bonferroni t-statistic selected from Table 3 (attached).

Berry Street Mall Landfill December 2011 Parametric Prediction Limit Data						
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