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Alameda County Environmental Health

October 23, 2007 RRM Project # KCE514

900 Central Avenue Corrective Action Account c/o Brian Kelleher Kelleher & Associates 812 S. Winchester Blvd., Suite 130, #109 San Jose, California 95128

Re: Subsurface Investigation Results, Second and Third Quarter 2007 Groundwater Monitoring Result

> 900 Central Avenue Alameda, California

Dear Mr. Kelleher:

This letter, prepared by RRM, Inc. (RRM), presents the results of the second and third quarter 2007 groundwater monitoring events and additional subsurface investigation results for the referenced site (Figure 1). All work was conducted in accordance with RRM's December 29, 2007 *Subsurface Investigation Workplan* which was approved by the Alameda County Health Care Services Agency (the County) in a letter dated January 9, 2007. RRM's workplan was prepared to satisfy the County's directives per their letter dated July 12, 2006.

The second and third quarter groundwater monitoring events were performed as a follow-up to RRM's first quarter event, which was the first monitoring event to be conducted at the site since October 2002. The additional subsurface investigation activities were performed to further characterize the extent of petroleum hydrocarbons in soil and groundwater on and off the site boundaries and included the installation of three additional groundwater monitoring wells and one recovery well which were incorporated into the quarterly groundwater monitoring program. A discussion of the site background, objectives, scope of work, conclusions, and recommendations is presented below. Field and analytical procedures are presented in Attachment A.

SITE BACKGROUND

Site Description and History – The site is located on the southeast corner of Central Avenue and Ninth Street in Alameda, California. In September 1975 the site operated as a Holland Oil Company retail gasoline station that consisted of a garage at the southwest corner, a pump island canopy in the northeast quadrant, three 550-gallon underground storage tanks (USTs) located beneath the sidewalk on Ninth Street, and a reported a waste oil tank. According to Alameda Fire Department records, the original permit for the tanks was issued in 1931 to Mohawk Oil Company. A 1973 business directory

lists the operator as EZ Pickings Gas and a 1975 directory as Holland Service Station No. 1. The tanks were removed by Holland Oil Company Inc., in September 1975.

In 1976 the property was sold to the Peterson family. In 1978, the Petersons sold the property to Gary Thompson dba Oak Construction. In October 1978 Oak Construction razed the gas station structures and constructed a residential duplex. The current owners, Karen and Gary Pearce, purchased the property in May 1985. The identification of subsurface contamination in 1994 instigated a lawsuit between the past and present owners. Due to the complexity of the lawsuit, William Nagle was appointed as Special Master in 1996 to help resolve the case. In 2003, Brian Kelleher of Kelleher & Associates in San Jose, California was appointed on behalf of the litigating parties to coordinate remedial response actions and associated cost recovery work.

The site is located three blocks east of downtown Alameda and approximately 3,000 feet northeast of Robert Crown Memorial State Beach and San Francisco Bay. The site is on gently sloping terrain approximately 25 feet above mean sea level. There is a man-made lagoon system approximately 1,000 feet south of the site.

The property is located in a mixed residential/commercial area. To the west, at the southwest corner of Central Avenue and Ninth Street, was a former church that has since been converted to a movie theater. The property to the northwest (841 Central Avenue) is reportedly the location of a former gas station that operated from approximately 1947 to 1969. Both former gas station properties and the remainder of the surrounding properties are currently residential.

Site Geology and Hydrogeology - Based on interpretation of historical boring logs, the site is underlain by sandy fill to a depth of approximately 3.5 feet. Fine sandy silt and poorly graded sand was encountered beneath the fill to approximately 26 feet below ground surface (bgs), the maximum depth explored. Groundwater was encountered in the borings between 12 and 13 feet bgs. From the two years of quarterly groundwater monitoring, depth to water seasonally ranged from 6 to 13 feet bgs and flow was toward the southwest (Lowney, "Soil and Groundwater Quality Reconnaissance" July 20, 1994; and Allwest, "Subsurface Investigation Report," August 5, 1997, and quarterly monitoring reports for 1999 and 2002).

Historic Remedial Investigations and Groundwater Monitoring

April 1994 Subsurface Investigations - Lowney Associates (Lowney) of Mountain View, California conducted a site history review that included historic Sanborn maps and aerial photos and completed a subsurface investigation. During the investigation, three bore holes (EB-1 through EB-3) were completed to 20 feet bgs in and around the incorrectly presumed location of the former USTs and pump island; soil samples were collected at 5-foot intervals, geologic logs were prepared; grab groundwater samples were collected from each boring; all groundwater and select soil samples (15 to 16-foot interval) were analyzed for motor oil range total petroleum hydrocarbons (TPHmo), diesel range TPH (TPHd), gasoline range TPH (TPHg), benzene, toluene, ethyl benzene, and xylenes (collectively BTEX); and a leachability test was conducted on the soil sample collected from Boring EB-1. TPHg and benzene were detected in the soil sample collected from EB-1 at 95 parts per million (ppm) and 400 parts per billion (ppb) respectively. In the grab groundwater sample from EB-1, TPHg and benzene were detected at

76,000 ppb and 2,200 ppb respectively (Lowney Associates, "Soil and Groundwater Quality Reconnaissance" July 20, 1994).

June 1997 Subsurface Investigations and RBCA Analyses - Allwest Environmental Inc. (Allwest) of San Francisco, California conducted a file review to assess potential on-site and off-site sources of subsurface contamination. They also advanced eight geoprobe-type soil borings (P-1 through P-8) to 16 feet bgs in and around the presumed location of the former USTs and pump island; collected soil samples at 5-foot intervals and field-tested the samples for total volatile hydrocarbons with an organic vapor analyzer (OVA); prepared geologic logs; collected grab groundwater samples from each boring; and analyzed 31 soil samples and eight groundwater samples for TPHg and BTEX. They reported discolored/odorous soils at 10 to 12 feet bgs in borings P-2 through P-4. TPHg was detected at 4,600 ppm in the soil sample collected at 14.5 feet bgs from Boring P-3. TPHg was detected in five of the eight grab groundwater samples with the highest concentration of 92,000 ppb at Boring P-3. Tier 1 and Tier 2 risk-based corrective-action evaluations were conducted using ASTM methodology. On the basis of the results Allwest concluded that there were no significant human health risks and no need for active remediation (*Allwest, "Subsurface Investigation Report," August 5, 1997*).

November 1998 Well Installations and Sampling — Allwest advanced three bore holes to 18 feet bgs at the northeast quadrant of the site; collected soil samples at 5-foot intervals and field tested the samples for TVH using a field OVA; prepared geologic logs; converted the borings to 2-inch diameter monitoring wells (MW-1 through MW-3) and developed, surveyed, sounded, purged and sampled the wells; and analyzed three groundwater samples for TPHg and BTEX. The depth to groundwater was approximately 12 feet bgs. TPHg and benzene was detected only in the sample from MW-1 at 360 ppb and 5.8 ppb respectively. The well installation report included a recommendation to monitor the wells quarterly for one year. This recommendation was approved by the County (*Allwest "Groundwater Monitoring Well Installation and Sampling" February 2, 1999*).

1999-Quarterly Groundwater Monitoring – From March through September 1999, Allwest conducted three quarterly groundwater monitoring events during which they sounded purged and sampled the three wells. The samples were analyzed for TPHmo, TPHd, and TPHg, and BTEX. Depth to groundwater ranged seasonally from approximately 6 to 12 feet bgs. TPHg was only detected in MW-1 at concentrations ranging from less than 50 ppb to 14,000 ppb. Based on the results, Allwest recommended conducting a risk assessment (*Allwest "Quarterly Groundwater Monitoring Reports" with the following dates: March 3, 1999; July 2, 1999; and October 14, 1999*).

2002-Quarterly Groundwater Monitoring—From March through December 2002, Allwest conducted four quarterly groundwater monitoring events during which they sounded, purged, and sampled the three wells. The samples were analyzed for TPHmo, TPHd, TPHg, and BTEX. Depth to groundwater ranged from approximately 8 to 13 feet bgs. TPHg was only detected in MW-1 at concentrations ranging from less than 50 ppb to 42,000 ppb; MTBE was not detected (*Allwest "Quarterly Groundwater Monitoring Reports" with the following dates: June 26, 2002; August 8, 2002; October 25, 2002; and "2002 Annual Groundwater Monitoring & Risk Assessment Report," January 31, 2003).*

2003-Production Well Survey, Conceptual Model and Risk Assessment – In December 2002, Allwest reviewed agency files to locate nearby water production wells and to prepare a site conceptual model consisting of

a 3-dimensional drawing showing known areas of subsurface contamination and potential sensitive receptors. Also a cursory risk assessment using risk-based screening levels (RBSLs) in recently published Regional Water Quality Control Board (RWQCB) lookup tables was conducted. Based on the risk assessment, Allwest concluded that the RBSLs for groundwater were exceeded at MW-1 for the vapor migration to indoor-air-inhalation pathway, and pose a possible risk to off site receptors. Identified off site receptors include four irrigation wells and one monitoring well located within approximately 500 feet of the site (Allwest: "2002 Annual Groundwater Monitoring & Risk Assessment Report," January 31, 2003).

OBJECTIVES

The objectives of the completed activities were to: 1) re-establish groundwater conditions and trends by resuming quarterly sampling following an extended period of inactivity, 2) adequately characterize the vertical and lateral extent of soil and groundwater contamination on and off the site boundaries by installing direct-push borings and three new off site groundwater monitoring wells, and 3) to provide a means for conducting soil vapor extraction and/or groundwater extraction feasibility testing by installing a source area remediation well.

SCOPE OF WORK

To meet the aforementioned objectives RRM performed the following scope of work:

- Pre-field Activities: Prior to starting any fieldwork, RRM obtained encroachment permits from both
 the City of Alameda and the California Department of Transportation (CalTrans) to work in their
 respective right-of-ways, obtained subsurface drilling permits from the Alameda County Public
 Works Agency, marked drilling locations with white paint, and contacted USA North to locate
 members' underground utilities. CalTrans involvement, not originally anticipated, delayed the original
 implementation schedule for the direct-push boring work along Central Avenue because of their
 permitting requirements.
- Redevelopment and Quarterly Sampling of Existing Groundwater Monitoring Wells: Prior to
 performing site investigation activities RRM redeveloped, measured for depth to groundwater, and
 sampled existing wells MW-1 through MW-3 to determine current groundwater conditions at the site.
 The wells were initially redeveloped and sampled during the first quarter 2007 and reported in RRM's
 April 3, 2007 First Quarter 2007 Groundwater Monitoring Results report. The wells were measured
 for depth to groundwater and sampled again during the second and third quarters of 2007.
 Groundwater sampling and laboratory analytical procedures are described in Attachment A. Field
 data sheets are included in Attachment B.
- Direct-Push Soil Borings: On August 9, 2007, RRM installed six exploratory soil borings (SB-1 through SB-6) using direct-push technology to depths ranging from 8 feet to 26 feet bgs. Soil borings were continuously sampled for logging purposes and to collect representative samples for laboratory analyses. Groundwater samples were not collected. The soil boring locations are shown on Figure 2. Soil boring procedures are described in Attachment A and boring logs are included in Attachment C.

- Groundwater Monitoring Well Installation and Development: On June 20, 2007 RRM installed three 2-inch diameter groundwater monitoring wells (MW-4 through MW-6) to a depth of approximately 18 feet bgs, and on August 13, 2007 installed one 4-inch diameter recovery well (RW-1) to approximately 20 feet bgs. Soil samples collected from the monitoring well borings were collected for logging purposes only. The monitoring wells were installed down-gradient and cross-gradient from the site across Ninth Street to further delineate the downgradient extent of contamination and monitor off-site groundwater conditions. The recovery well was installed adjacent to the former UST in the sidewalk along Central Avenue to monitor source area groundwater conditions and for conducting dual phase pilot tests as described later in this document. On August 23, 2007 the wells were properly developed using surge swab techniques. Well installation and sampling procedures are described in Attachment A, sampling field data sheets are included in Attachment B, and well construction logs are included in Attachment C.
- Well Elevation Survey: On August 20, 2007, Silicon Valley Land Surveying, Inc. surveyed all the new and existing wells for xy coordinates and top of casing (TOC) elevation relative to mean sea level. The new survey data indicated an approximate 1-inch-low TOC elevation discrepancy for well MW-2. RRM re-calculated groundwater elevations and prepared new gradient maps for all eight previous monitoring events conducted since November 1998 using the new elevation survey data. The well survey report is provided in Attachment C. Re-calculated historical groundwater elevation contour maps are presented in Attachment D and reveal that the gradient has been predominantly westerly to southwesterly (toward the bay), consistent with topography except during the first monitoring event (conducted November 27, 1998) when the gradient was southerly. Based in the revised historical groundwater elevation contour maps, the elevation discrepancy for well MW-2 did not produce a significant difference in the gradient contours as originally drawn for the historic monitoring events.
- Laboratory Analyses: Selected soil samples from the soil borings and groundwater samples
 collected from new and existing wells were analyzed for the presence TPHg and BTEX. Additionally,
 select soil and groundwater samples were analyzed for MtBE and fuel oxygenates. Select soil
 samples were also analyzed for total petroleum hydrocarbons as Stoddard solvent, diesel, and
 kerosene.

RESULTS

Second Quarter Groundwater Sampling Event

On May 4, 2007 RRM performed second quarter groundwater sampling activities. TPHg and benzene were detected only in the groundwater sample collected from MW-1 at concentrations of 28,000 ppb and 2,080 ppb, respectively. Fuel oxygenates including MtBE were not detected in any of the samples. Depth to groundwater ranged from 9.17 feet to 9.19 feet bgs with a groundwater flow direction toward the west at an approximate gradient of 0.02 foot/foot.

A groundwater elevation contour map for the May 4, 2007 monitoring event is shown on Figure 3A. Groundwater analytical data is summarized in Table 1 and shown on Figure 4A.

Third Quarter Groundwater Sampling Event

On August 23, 2007 RRM performed third quarter groundwater sampling activities at wells MW-1 through MW-6 and at RW-1. Petroleum hydrocarbons were detected only in wells MW-1 and RW-1. TPHg was detected at concentrations of 56,700 ppb and 16,000 ppb, respectively. Benzene was present only in Well RW-1 at a concentration of 2,570 ppb. Fuel oxygenates including MtBE were not detected in any of the samples. Depth to groundwater ranged from 11.23 feet to 12.23 feet bgs with a groundwater flow direction toward the west at an approximate gradient of 0.01 foot/foot.

A groundwater elevation contour map for the August 23, 2007 monitoring event is shown on Figure 3B. Groundwater analytical data is summarized in Table 1 and shown on Figure 4B. Certified analytical reports and chain-of-custody documentation are presented in Attachment D.

Soil Boring Investigation Results

Conditions encountered in the soil borings were generally consistent with previous investigations and consisted of poorly graded sand and silty sand to 26 feet bgs, the total depth explored. Groundwater was encountered in borings SB-1 through SB-3 and SB-6 at depths ranging from 12.5 feet to 14.5 feet bgs. Petroleum hydrocarbons were detected in soil samples collected from Boring SB-1 at depths ranging from 7.5 feet to 16 feet bgs and from Boring SB-4 at 8 feet bgs. TPHg was detected in Boring SB-1 at concentrations ranging from 0.79 ppm at 7.5 feet bgs to 2,600 ppm at 12 feet bgs and in Boring SB-4 at a concentration of 5.1 ppm at 8 feet bgs. Ethylbenzene was detected at concentrations of 31 ppm at 12 feet bgs and 0.31 ppm at 16 feet bgs. Xylenes concentrations ranged from 0.034 ppm at 7.5 feet bgs to 200 ppm at 12 feet bgs. Fuel oxygenates including MtBE, other volatile organic compounds, and other petroleum hydrocarbons were not detected in any of the soil samples submitted for laboratory analyses.

Specific soil samples collected between 7.5 feet and 15 feet bgs at borings SB-2 and SB-5 were noted on the geologic logs to have a petroleum hydrocarbon odor and a greenish coloring, often associated with degraded gasoline contamination. Soil sample field screening procedures using a PID did not detect measurable volatile hydrocarbons in the samples. The laboratory analytical results of those same samples also did not show any measurable petroleum hydrocarbons. An additional analysis was performed on the sample collected from Boring SB-5 at 10.5 feet using EPA Method 8260B and confirmed the initial non-detect results. Since the PID readings are consistent with the laboratory analytical results, it is RRM's opinion that the odors and soil discoloration observed during drilling are a remnant of degraded petroleum hydrocarbon compounds. This is consistent with the fact that the petroleum hydrocarbon release is believed to have occurred at least four decades ago.

Previous and current soil analytical data are summarized in Table 2 and shown on Figure 5; certified analytical reports and chain-of-custody documentation are presented in Attachment D.

CONCLUSIONS

- Vadose zone soil sample analytical results indicate that there is no significant petroleum
 hydrocarbon contamination within the upper 8 feet of soil across the site, including the area of
 the former UST at the northwest corner of the site. The only detectable petroleum hydrocarbon
 concentration in the vadose zone was 0.79 ppm of TPHg in sample SB-1 located adjacent to the
 former USTs.
- Saturated zone soil sample analytical results indicate that there is significant residual petroleum hydrocarbon contamination in the upper water-bearing zone in the immediate area of the former USTs. Contamination extends westerly to MW-1 at depths ranging from 8 feet to 18 feet bgs with a maximum TPHg concentration of 4,600 ppm at 14.5 feet bgs in Boring P-3.
- Based on soil sample results from SB-2 at 20 feet bgs, petroleum hydrocarbons have been defined to non-detection in the vertical direction in the immediate tank area.
- Groundwater sample analytical data show that dissolved petroleum hydrocarbons extend from
 the former UST area southwesterly beneath Ninth Street. Dissolved petroleum hydrocarbons
 have been defined to non-detection by well MW-2 in the easterly (upgradient) direction, by well
 MW-3 in the southerly (cross-gradient) direction, and wells MW-4, 5, 6 in the southwesterly
 (downgradient) direction.
- Due to heavily traveled Central Avenue, it is considered impractical to install a monitoring well in the roadway to define dissolved petroleum hydrocarbons in the northerly (cross-gradient) direction.
- Fuel oxygenates including MtBE were not detected in any of the soil or groundwater samples analyzed and suggest that the subsurface release occurred prior to the 1980s.
- The current and historic shallow groundwater flow direction is westerly to southwesterly when
 using the most recent well elevation survey data in conjunction with historic groundwater depth
 readings.
- Petroleum hydrocarbons in soil and groundwater have been adequately defined and characterized.
- Dissolved TPHg and benzene concentrations at wells RW-1 and MW-1 indicate the presence of residual contamination in the vicinity of the former USTs that may continue to affect groundwater quality. In addition, the TPHg and benzene concentrations at these wells exceed the San Francisco Bay Region RWQCBs RBSLs for the vapor intrusion/indoor air pathway for commercial land use.
- There is a need for active remediation of saturated soils/groundwater in the immediate area of the former USTs. The heavily impacted area is approximately 50 feet long by 20 feet wide, extends from approximately 8 feet to 18 feet from grade, and encompasses about 370 bank cubic yards of saturated soils overlain by about 300 bank cubic yards of clean overburden.

• Based on site-specific considerations (soil type, the shallow depth to groundwater, and the small area involved), there are several suitable remediation techniques that could be used. These include: remedial excavation; sparging-enhanced vapor extraction using fixed equipment (SESVE); and sparging-enhanced dual-phase extraction using a self-contained mobile treatment unit (SEDPE). Remedial excavation is complicated by the presence of the sidewalk, street and underground utilities. The second approach does not appear viable due to the residential use of the property and absence of a good location for a treatment compound. While RRM generally recommends the remedial excavation approach for this depth interval and soil volume (based on cost effectiveness and expediency), the third approach may be best suited here.

RECOMMENDATIONS

Feasibility Study

Based on the results and conclusions of the of the site investigation activities, RRM recommends the installation of an air sparging well between wells RW-1 and MW-1 and conducting one day of SEDPE using a self contained mobile treatment unit. The as-built design of wells MW-1 and RW-1 appear suitable to use with this technology. Pending County approval of this approach, RRM will prepare a SEDPE pilot test work plan.

The pilot test should be performed during low groundwater conditions, either in the fourth quarter of 2007 or second or third quarter of 2008. As part of the feasibility study, RRM also recommends mapping out the underground utilities that would need to be addressed both in a remedial excavation approach and to installing air sparge wells and associated conveyance piping.

Upon completion of the one-day test, RRM will prepare a feasibility study/corrective action plan for the site that satisfies State Water Resource Control Board requirements as set forth in CCR, Title 23, Div. 3, Chap. 16, Art. 11, Sec. 2725. The document will present pilot test results, establish proposed cleanup goals, cost out several remedial alternatives for meeting the goals including SEDPE and remedial excavation, and will identify the optimal remedial approach using an appropriate decision matrix.

Groundwater Monitoring

Based on recent and historical groundwater monitoring data, RRM recommends the continuation of quarterly sampling and reporting for all site wells.

Should you have any questions regarding the contents of this report, please call RRM at (831) 475-8141.

Sincerely,

RRM, Inc.

Matt Kaempf

Project Manager

Matthew J. Paulus Senior Geologist

PG 8193

Attachments: Table 1 - Groundwater Elevation and Analytical Data

Table 2 – Soil Analytical Data Figure 1 – Site Location Map

Figure 2 - Site Map

Figure 3A – Groundwater Elevation Contour Map, May 4, 2007

Figure 3B – Groundwater Elevation Contour Map, August 23, 2007

Figure 4A - TPHg/Benzene Groundwater Concentration Map, May 4, 2007

Figure 4B - TPHg/Benzene/MtBE Groundwater Concentration Map, August 23, 2007

Figure 5 - Soil Analytical Results

Attachment A - Field and Analytical Procedures

Attachment B - Field Data Sheets

Attachment C - Well Construction and Boring Logs and Survey Data

Attachment D - Historical Groundwater Elevation Contour Maps

Attachment E - Certified Analytical Reports and Chain-of-Custody Documentation

Table 1 Groundwater Elevation and Analytical Data

900 Central Avenue Alameda, California

	Date	Well	Depth	Groundwater				Ethyl-	Total				
Sample	Gauged	Elevation	to Water	Elevation	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE	TPHd	TPHmo	
ID	& Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	Notes
MW-1	11/27/98	25.17	11.77	13.40	360	5.8	5.5	9.2	40	<5.0	<50	<500	
	03/12/99		6.59	18.58	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<50	<500	
	06/01/99		8.71	16.46	930	< 0.50	19	52	230	<5.0	540	<500	
	09/03/99		11.79	13.38	14,000	300	1,900	890	5,600	<5.0	2,100	<500	
	03/29/02		8.32	16.85	<50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	61	<610	
	07/15/02		11.39	13.78	39,000	1,700	2,900	1,800	7,800	<10	4,200	<5000	
	10/03/02		12.88	12.29	42,000	2,600	3,300	1,800	10,000	<500	8,400	<2500	
	02/05/07		10.40	14.77	26,000	2,550	2,010	1,140	4,870	<0.5	NA	NA	1
	05/04/07		9.77	15.40	28,000	2,080	1,820	739	5,500	NA	NA	NA	1
	08/23/07	28.27	12.23	16.04	56,700 ³	2,570	2,370	1,120	9,560	<11	NA	NA	1
MW-2	11/27/98	25.12	11.76	13.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	03/12/99		6.53	18.64	<50	<0.50	<0.50	<0.50	< 0.50	<5.0	<50	<500	
	06/01/99		8.56	16.61	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<50	<500	
	09/03/99		11.60	13.57	<50	<0.50	<0.50	< 0.50	1.8	<5.0	<50	<500	
	03/29/02		8.10	17.07	<50	<0.50	<0.50	< 0.50	< 0.50	<5.0	<50	<500	
	07/15/02		10.92	14.25	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<50	<500	
	10/03/02		DRY		NS	NS	NS	NS	NS	NS	NS	NS	
	02/05/07		10.15	15.02	89	<0.5	<0.5	<0.5	<1.5	<0.5	NA	NA	1,2
	05/04/07		9.43	15.74	<50	<0.500	<0.500	<0.500	<1.5	NA	NA	NA	1
	08/23/07	28.31	11.94	16.37	<50	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	1
MW-3	11/27/98	24.58	11.41	13.76	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	03/12/99		6.01	19.16	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<50	<500	
	06/01/99		8.16	17.01	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<50	<500	
	09/03/99		11.27	13.90	<50	< 0.50	<0.50	< 0.50	< 0.50	<5.0	<50	<500	
	03/29/02		7.78	17.39	<50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<50	<500	
	07/15/02		10.82	14.35	<50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	110	<500	
	10/03/02		12.28	12.89	<50	<0.50	<0.50	< 0.50	< 0.50	<5.0	<50	<500	
	02/05/07		9.85	15.32	<50	<0.5	<0.5	<0.5	<1.5	<0.5	NA	NA	1
	05/04/07		9.19	15.98	<50	<0.500	<0.500	<0.500	<1.5	NA	NA	NA	1
	08/23/07	27.69	11.63	16.06	<50	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	1
MW-4	08/23/07	27.37	11.73	15.64	<50	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	1
MW-5	08/23/07	27.25	11.56	15.69	<50	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	1
MW-6	08/23/07	27.24	11.52	15.72	<50	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	1

1

Table 1 Groundwater Elevation and Analytical Data

900 Central Avenue Alameda, California

	Date	Well	Depth	Groundwater				Ethyl-	Total				
Sample	Gauged	Elevation	to Water	Elevation	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE	TPHd	TPHmo	
ID	& Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	Notes
RW-1	08/23/07	27.43	11.23	16.20	16,000 ³	<4.40	38.9	571	2,660	<4.40	NA	NA	1

Notes:

MSL = relative to mean sea level

TOC = top of casing

TPHg = gasoline range total petroleum hydrocarbons

TPHd = diesel range total petroleum hydrocarbons

TPHmo = motor oil range total petroleum hydrocarbons

TBA = tert-Butanol

MtBE = Methyl tert-Butyl Ether

ppb = parts per billion (micrograms per liter)

< = none detected at or above reported detection limit</p>

NS = not sampled

NA = not analyzed

1 = also sampled for the fuel oxygenates ethyl tert-butyl ether (ETBE), isopropyl ether (DIPE), t-butyl alcohol (t-butanol) (TBA), and tert-amyl methyl ether (TAME); none of these compounds detected above the laboratory limit.

2 = the laboratory reported value due to discrete peaks present within the TPH as gasoline quantitation range (heavy end); not typical gasoline.

3 = the laboratory reported results are elevated due to non-target compounds within the gasoline range

Table 2
Soil Analytical Data

900 Central Avenue Alameda, California

Sample ID	Date	Depth (feet, bgs)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	TPHss (mg/kg)	TPHk (mg/kg)	VOCs (mg/kg)
00.475	20/20/27	7.5	0.70	0.040	0.040	0.040	0.004						
SB-1-7.5	08/09/07	7.5	0.79	<0.010	<0.010	<0.010	0.034	NA	NA	NA	NA	NA	NA
SB-1-12	08/09/07	12	2,600	<3.3	<3.3	31	200	NA	NA	NA	NA	NA	NA
SB-1-16	08/09/07	16	11	<0.010	<0.010	0.31	1.7	NA	NA	NA	NA	NA	NA
SB-1-20	08/09/07	20	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-1-24	08/09/07	24	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-2-8	08/09/07	8	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-2-11.5	08/09/07	11.5	< 0.50	< 0.010	< 0.010	< 0.010	< 0.010	NA	<5.0	<10	<5.0	<5.0	NA
SB-2-16	08/09/07	16	< 0.50	< 0.010	< 0.010	< 0.010	< 0.010	NA	NA	NA	NA	NA	NA
SB-2-20	08/09/07	20	< 0.50	< 0.010	< 0.010	< 0.010	< 0.010	NA	NA	NA	NA	NA	NA
SB-2-24	08/09/07	24	< 0.50	< 0.010	< 0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-3-8	08/09/07	8	< 0.50	< 0.010	<0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-3-12	08/09/07	12	< 0.50	< 0.010	<0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-3-16	08/09/07	16	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-4-8	08/09/07	8	5.1	< 0.050	< 0.050	< 0.050	<0.100	< 0.050	<5.0	<10	<5.0	<5.0	ND
SB-5-8	08/09/07	8	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA			
SB-5-10.5	08/09/07	10.5	<0.50	<0.010	<0.010	<0.010	<0.010	<0.0050	<5.0	<10	<5.0	<5.0	ND
36-3-10.3	06/09/07	10.5	<0.10	<0.005	<0.005	<0.005	<0.010	<0.0050	<5.0	<10	₹3.0	₹3.0	ND
SB-6-8	08/09/07	8	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-6-12	08/09/07	12	< 0.50	< 0.010	< 0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
SB-6-16	08/09/07	16	<0.50	< 0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-4-6	06/22/07	6	< 0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-4-10.5	06/22/07	10.5	< 0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-4-16.5	06/22/07	16.5	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-5-7.5	06/22/07	8	< 0.50	<0.010	< 0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-5-10.5	06/22/07	10.5	< 0.50	<0.010	< 0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-5-15	06/22/07	15.0	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA

Table 2 **Soil Analytical Data**

900 Central Avenue Alameda, California

						Ethyl-	Total						
Sample		Depth	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE	TPHd	TPHmo	TPHss	TPHk	VOCs
ID	Date	(feet, bgs)	(mg/kg)										
MW-6-5	06/22/07	5	<0.50	< 0.010	<0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
MW-6-10.5	06/22/07	10.5	< 0.50	< 0.010	< 0.010	< 0.010	< 0.010	NA	NA	NA	NA	NA	NA
MW-6-17	06/22/07	17	< 0.50	< 0.010	< 0.010	< 0.010	<0.010	NA	NA	NA	NA	NA	NA
EB-1 ^a	04/20/94	14.5	95	0.4	0.5	0.9	5.2	NA	39	<10	NA	NA	NA
EB-2 ^a	04/20/94	16.5	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	NA	<5	<10	NA	NA	NA
EB-3 ^a	04/20/94	14.5	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	NA	<5	<10	NA	NA	ND
P-1-11 ^b	06/97	11	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-2-10.5 ^b	06/97	10.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-2-12.5 ^b	06/97	12.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-3-11 ^b	06/97	11	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-3-14.5 ^b	06/97	14.5	4,600	ND	15	110	590	NA	NA	NA	NA	NA	NA
P-4-13 ^b	06/97	13	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-4-15.5 ^b	06/97	15.5	1.1	0.011	0.0092	0.03	0.066	NA	NA	NA	NA	NA	NA
P-5-11.5 ^b	06/97	11.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-6-10.5 ^b	06/97	10.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-7-9.5 ^b	06/97	9.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
P-8-9.5 ^b	06/97	9.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

Notes:

TPHg = gasoline range total petroleum hydrocarbons

TPHd = diesel range total petroleum hydrocarbons

TPHmo = motor oil range total petroleum hydrocarbons

TPHss = Stoddard range total petroleum hydrocarbons

TPHk = kerosene total petroleum hydrocarbons

MtBE = Methyl tert-Butyl Ether

a = Work performed by Lowney Associates on April 4, 1994.

b = Work performed by Allwest in 1997.

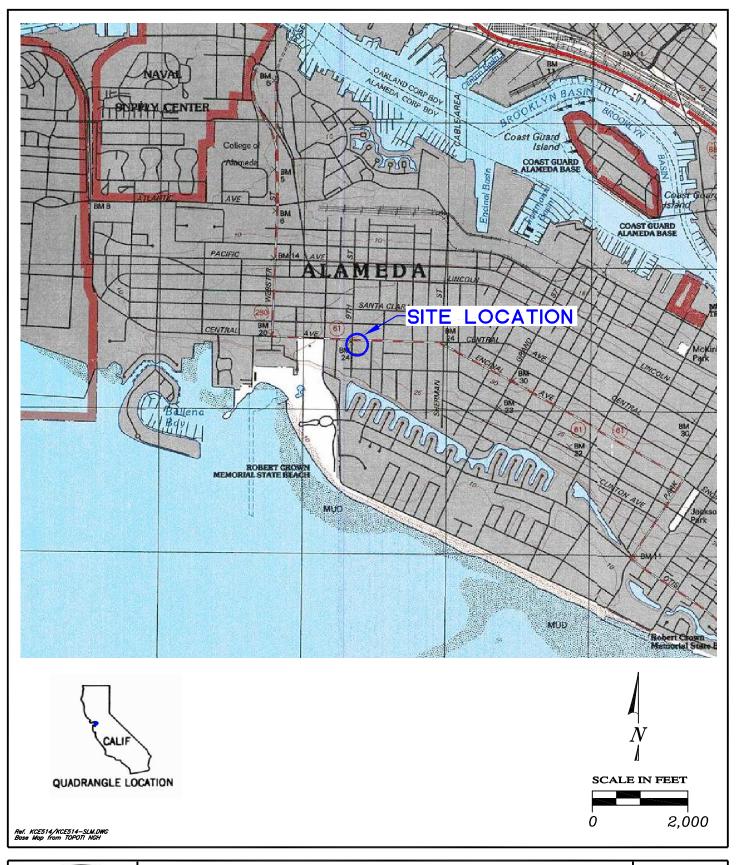
mg/kg = milligrams per kilogram

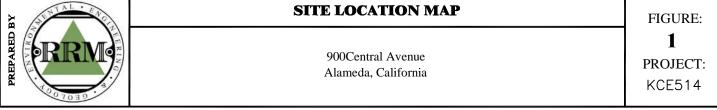
bgs = below ground surface

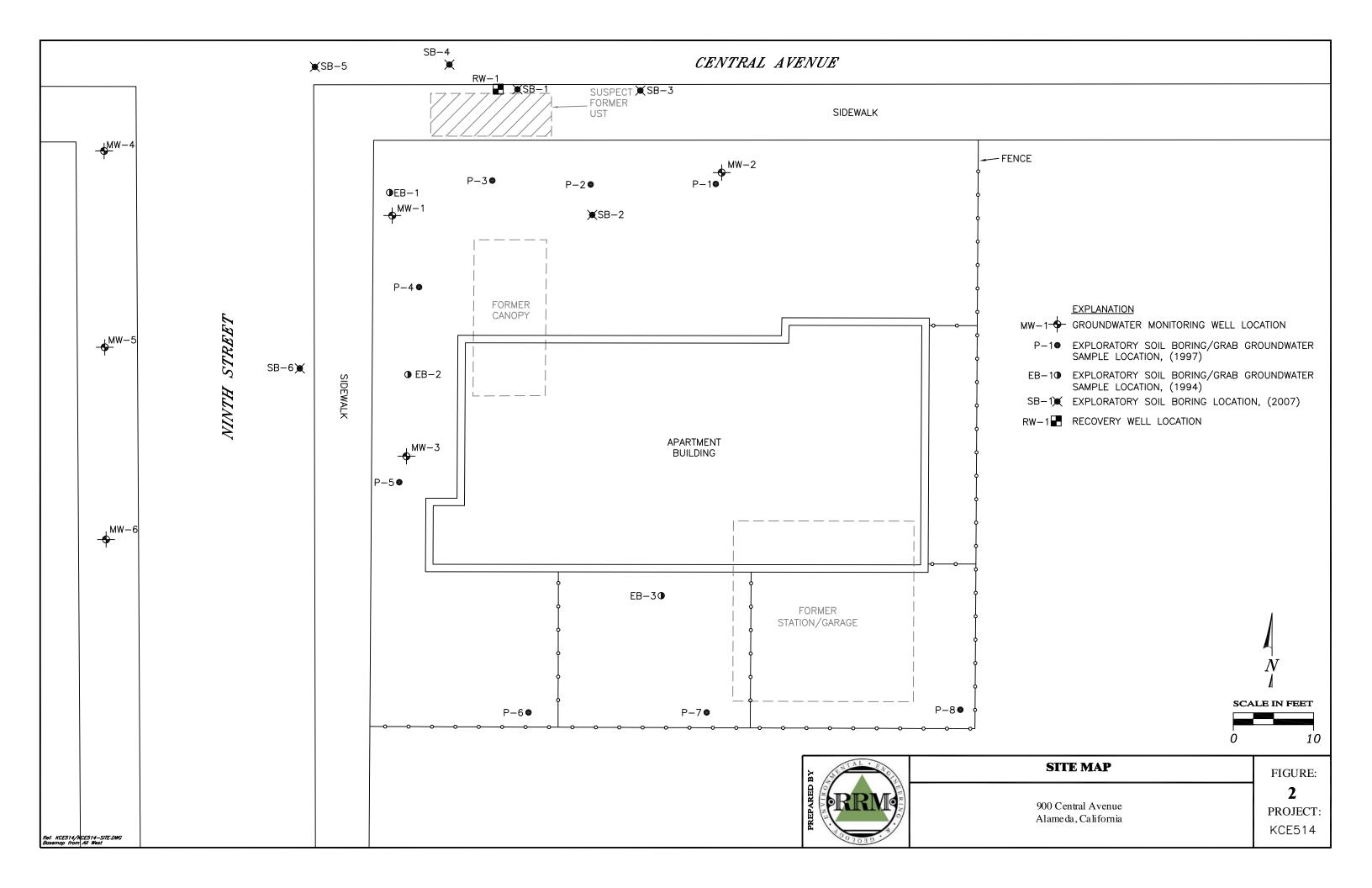
< = none detected at or above reported detection limit

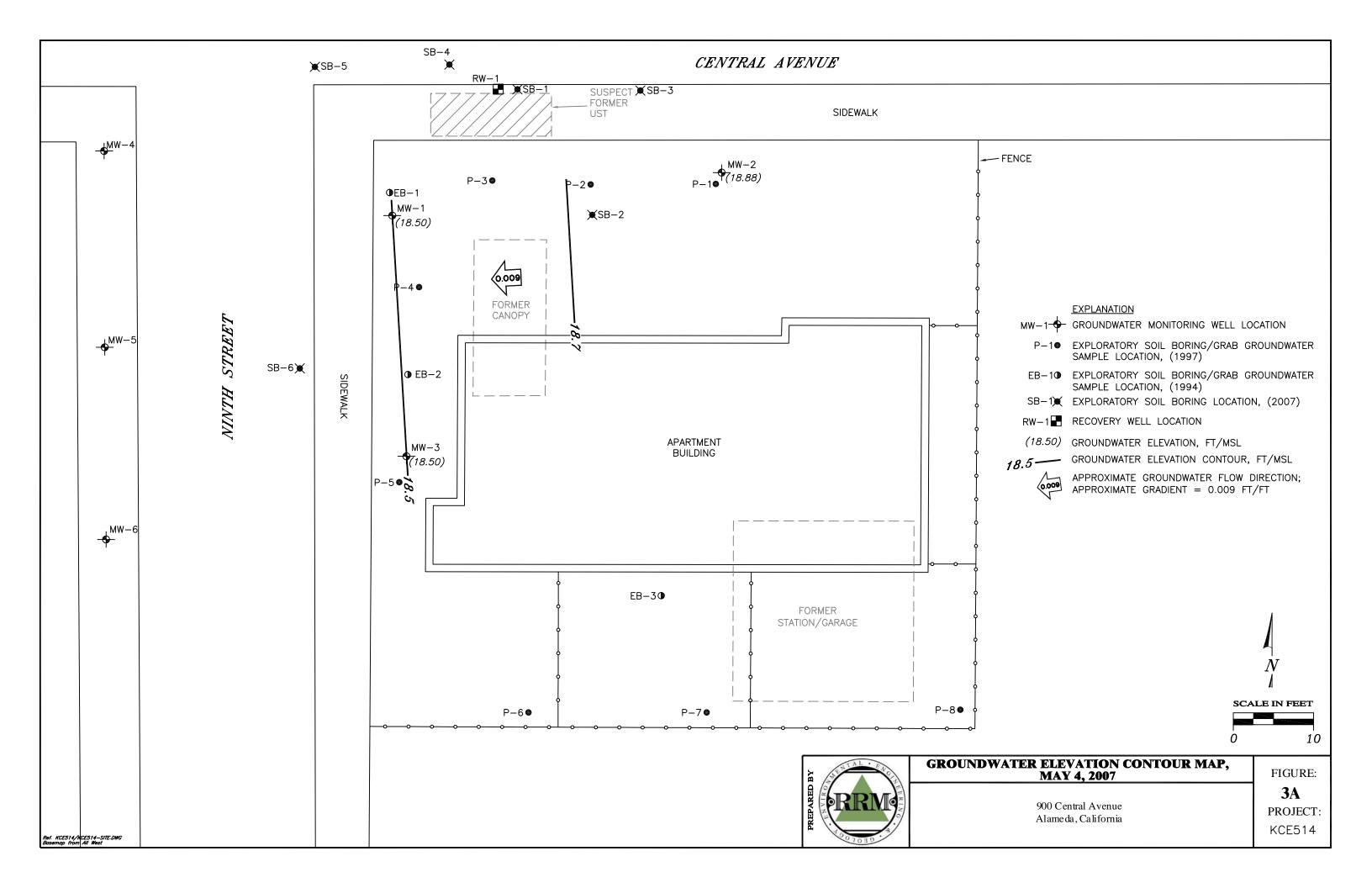
ND = not detected

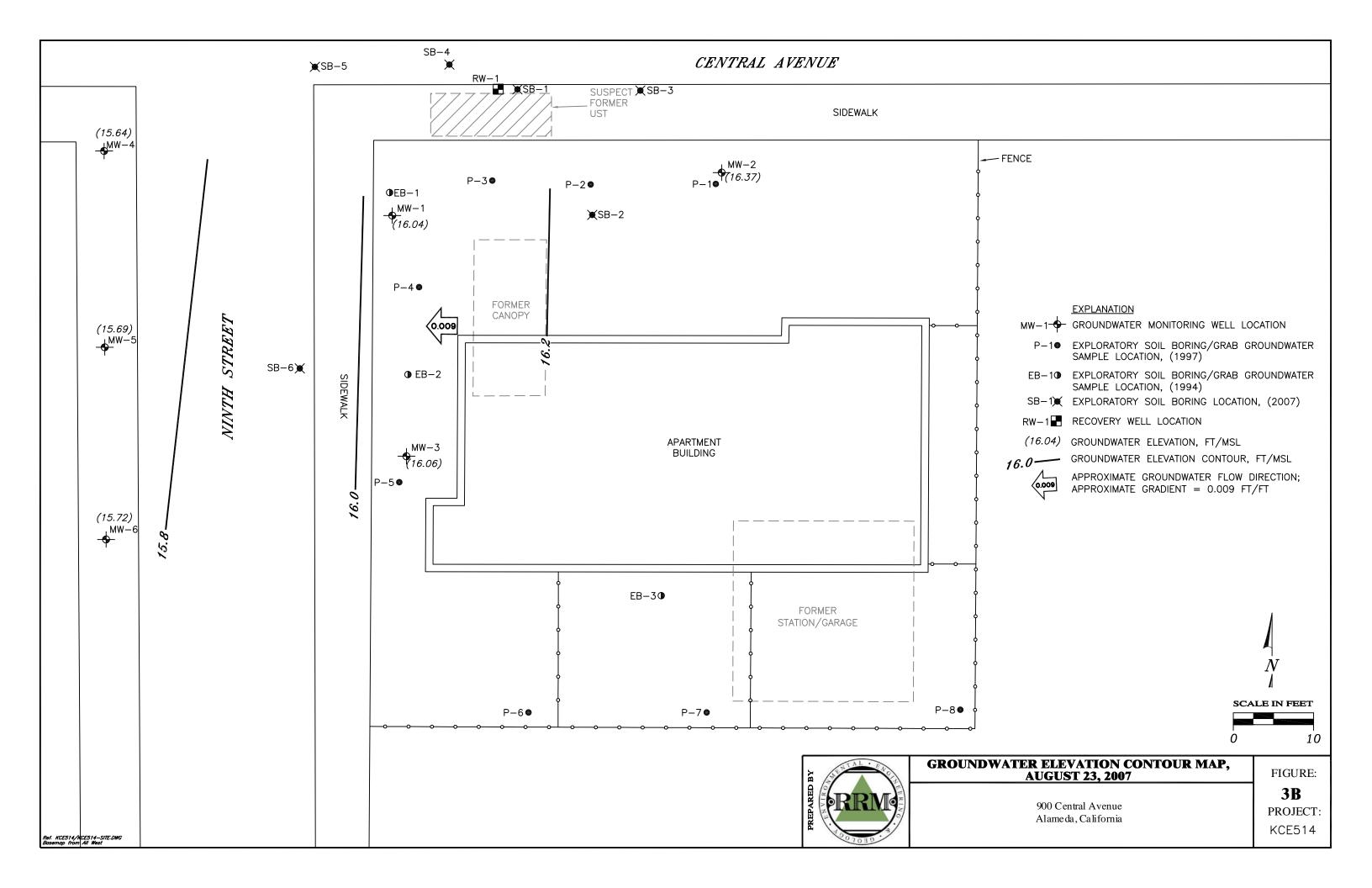
NA = not analyzed

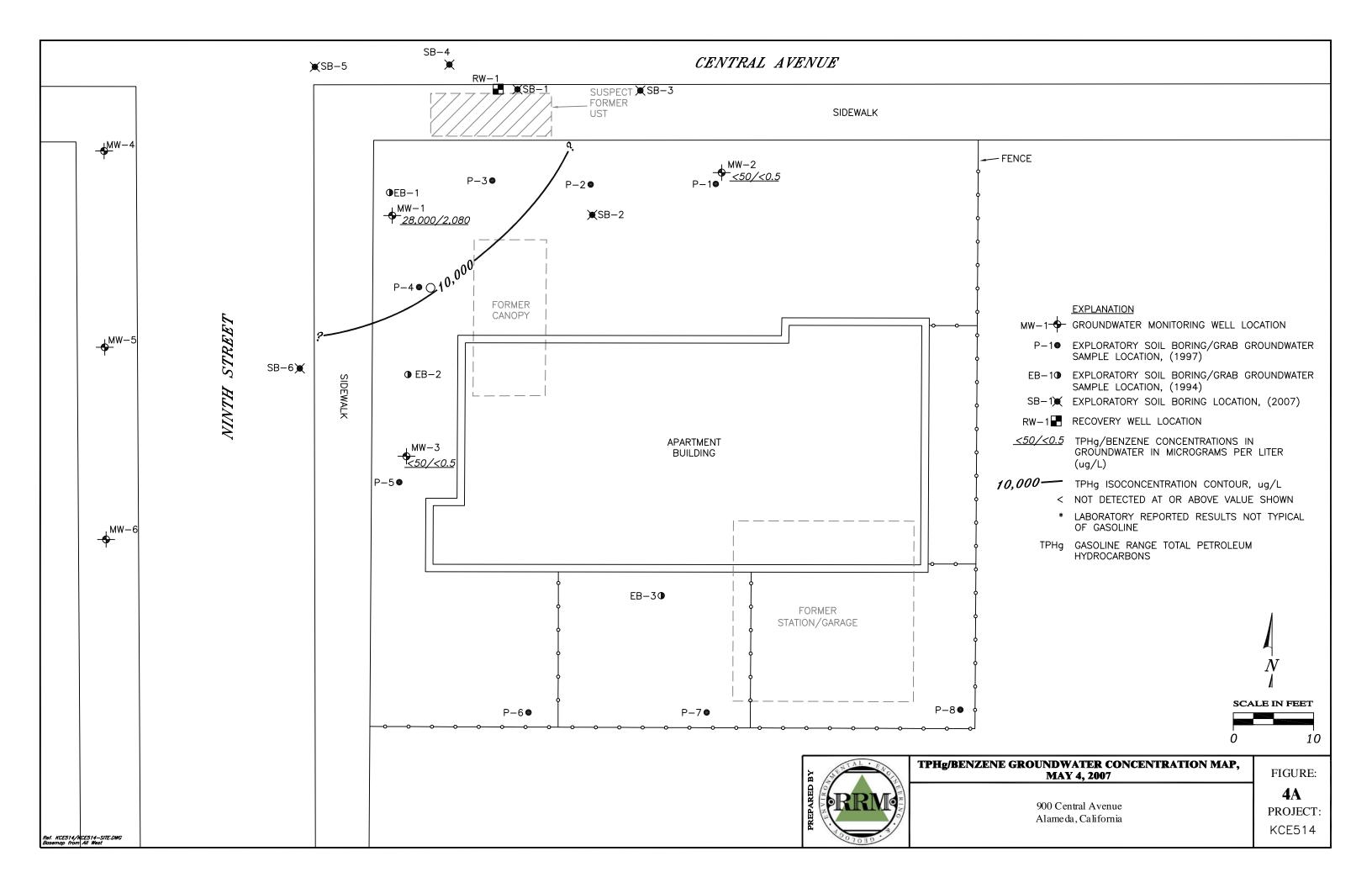


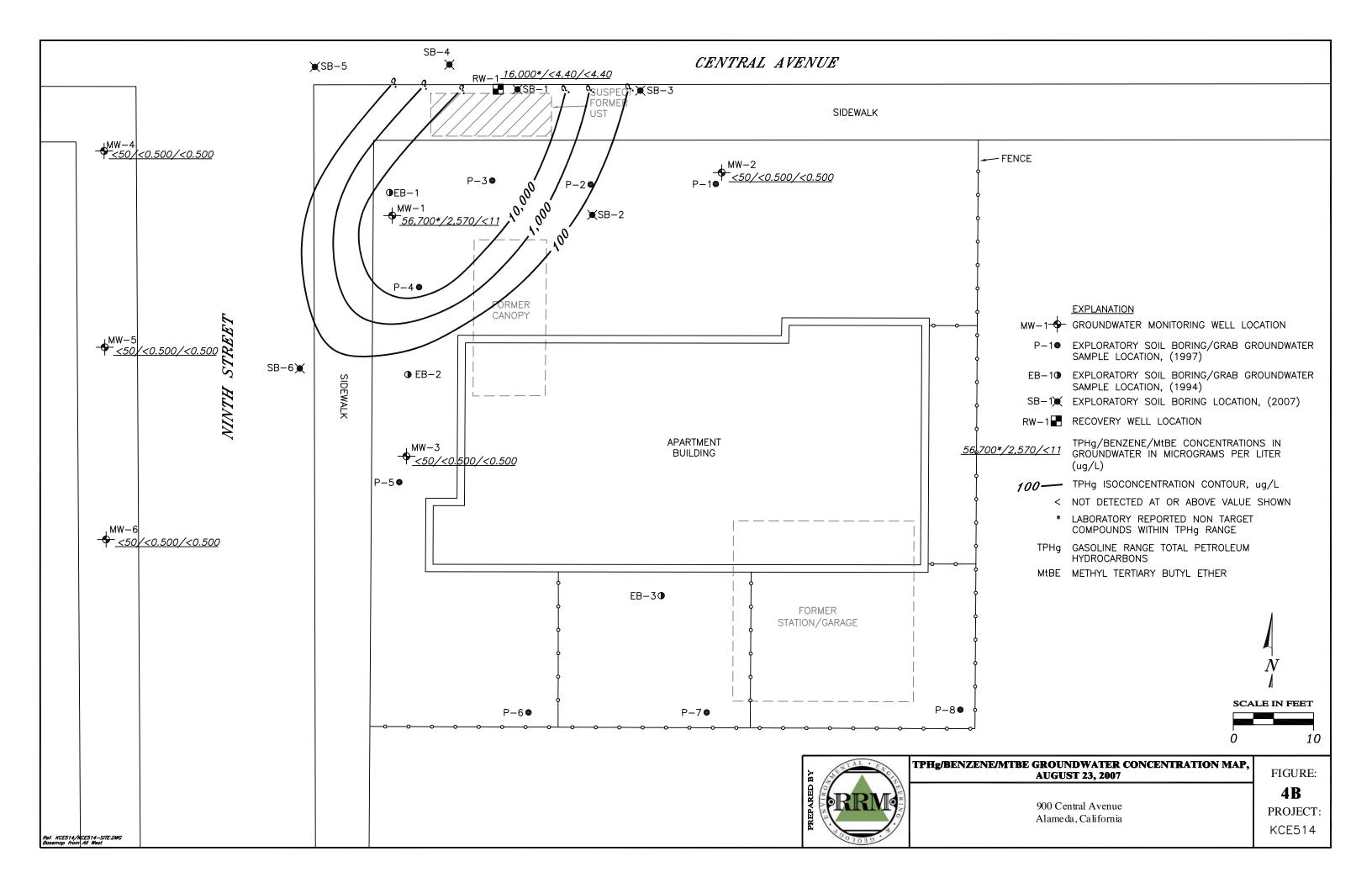


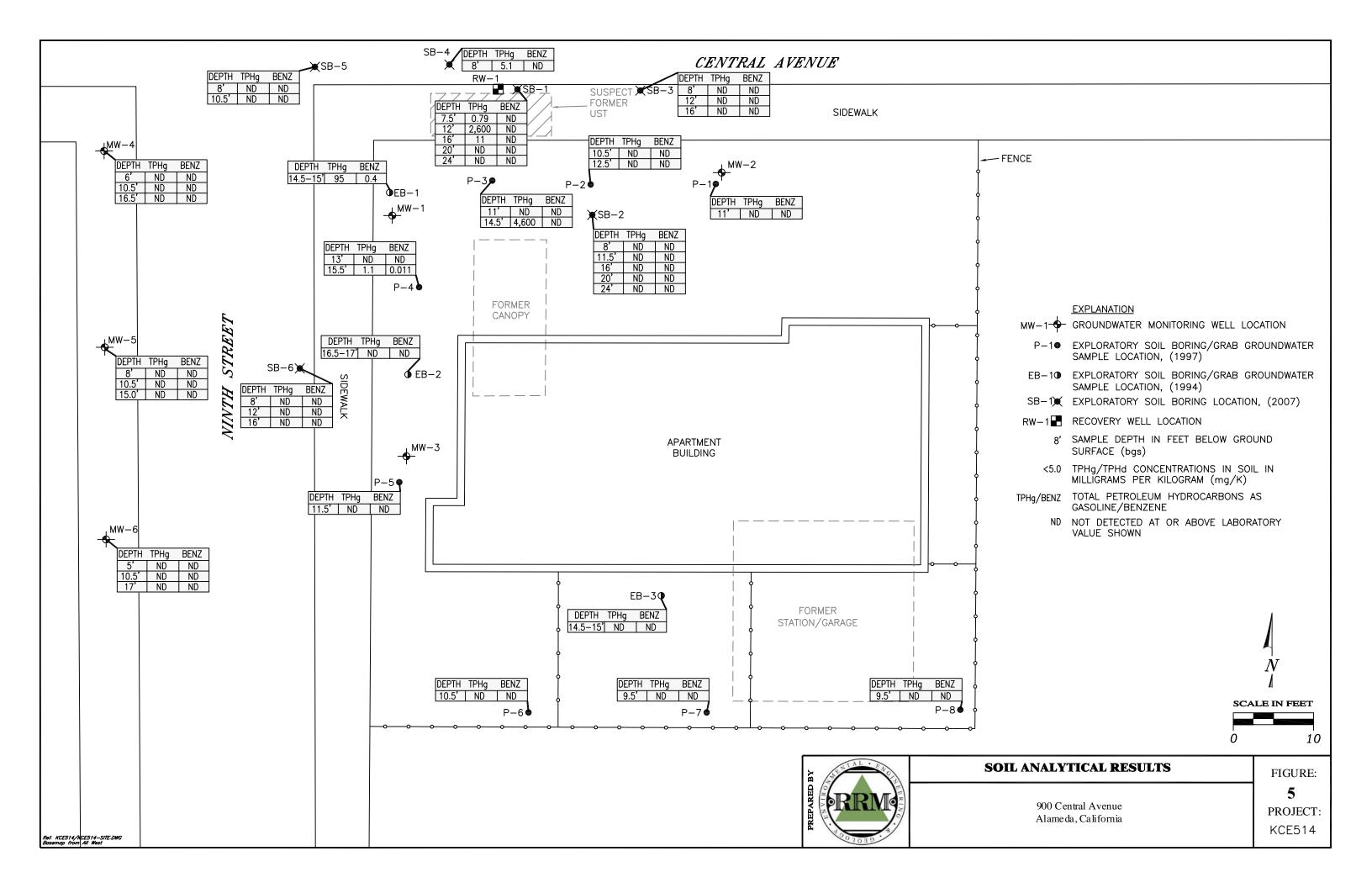














FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

Direct-Push Boring Procedures

The soil borings will were drilled using 2-inch diameter direct-push drilling equipment. An RRM, Inc. geologist logged the soil borings using the Unified Soil Classification System and standard geologic techniques. Under the direction of a State of California Registered Geologist, descriptive information noted on the boring logs included soil and groundwater information. Soil samples were collected for lithologic description and chemical analysis by advancing a 2-inch diameter core sampler with either 48-inch or 24-inch long acetate liners into undisturbed soil during drilling. The selected sample intervals retained for chemical analysis were capped with Teflon® tape and plastic end caps, and then placed in sealed plastic bags. These samples were placed on ice for transport to a state-certified laboratory, accompanied by chain-of-custody documentation. Upon completion of all sampling activities, the borings were backfilled with cement grout. Drilling and sampling equipment was steam-cleaned or cleaned with tri-sodium phosphate solution prior to and between uses. When completed, the boreholes were filled with cement grout from the bottom of the boring to the ground surface.

Well Installation

Wells were permitted and installed in accordance with state and local guidelines using a state licensed well driller. Soil borings intended to be 2-inch diameter groundwater monitoring wells were drilled using 8-inch diameter hollow-stem augers to a maximum depth of 26 feet below ground surface (bgs). A RRM, Inc. geologist logged each boring from soil samples and auger cuttings. Under the direction of a State of California Registered Geologist, descriptive information denoted on the boring log includes soil and groundwater information. Drilling and sampling equipment was steam-cleaned or cleaned with trisodium phosphate prior to and between uses. The soil boring advanced for the purpose of constructing the 4-inch diameter recovery well was drilled using 12-inch diameter hollow-stem augers to 20 feet bgs.

Soil samples for chemical analysis and logging purposes were collected at minimum 5-foot depth intervals or changes in lithology. Soil samples for chemical analyses were collected from 2-inch diameter split-spoon samplers equipped with 4-inch or 6-inch brass liners. The brass liners were capped with Teflon, plastic end caps, and placed in sealable plastic bags. The brass liners were then stored in iced coolers and transported to a state certified laboratory, with chain-of-custody documentation.

Monitoring Well Installation

Groundwater monitoring wells were constructed to monitor discrete water bearing strata. Well construction information was denoted on the boring log in the field. Well construction materials consisted of a cement grout or bentonite bottom seal (if necessary), 2-inch diameter flush-threaded Schedule 40 PVC casing and 0.020-inch factory-slotted screen, RMC 2 x 12 graded sand pack, a bentonite and cement grout surface seal, and a locking cap and protective vault box. The recovery well was constructed at similar depth intervals using 4-inch diameter PVC casing and screen.

The well screen extends from the maximum depth of the well to approximately 5 feet or 8 feet bgs, with solid casing extending to the ground surface. The sand pack was placed from the bottom of the boring and extends approximately 6-inches above the well screen. A 6-inch thick bentonite seal was placed on top of the sand pack, followed by cement grout extending to the ground surface. A traffic-rated vault box was placed over each well. Following well completion, all new and existing wells were surveyed to the nearest 0.01 feet relative to mean sea level datum by a licensed surveyor.

Well Development/Groundwater Sampling

Well development of new wells or redevelopment of existing wells was performed utilizing surge block/swab and groundwater extraction techniques. Well development was performed until the majority of suspended fines are removed or until approximately ten casing volumes were removed. Well development documentation consists of recording data including: time, groundwater and total well depth, turbidity, gallons removed, and well stabilization parameters (pH, conductivity, temperature). Development and purge waters were stored on site in 55-gallon drums pending proper disposal at a State-licensed facility.

Groundwater sampling procedures consisted of initially measuring and documenting the water level in the well and checking the well for the presence of separate-phase hydrocarbon (SPH) using an oil/water interface probe or a clear Teflon bailer. If the well did not contain SPH, it was purged a minimum of three casing volumes or until dry. During purging, well stabilization parameters (temperature, pH, and electrical conductivity) were monitored. After 80% recovery of the water levels, a groundwater sample was collected with a clean Teflon bailer and placed into the appropriate EPA-approved containers. Sampling equipment was cleaned with tri-sodium phosphate between uses. The samples were labeled and transported under iced storage to the laboratory using appropriate chain-of-custody documentation.

Field Hydrocarbon Screening Procedures

Soil samples collected during soil boring activities were screened in the field for total volatile hydrocarbons (TVH) using a photo-ionization detector (PID). The procedure consisted of obtaining approximately 30 grams of soil and placing it into a clean container. The container was then warmed for 20 minutes and the headspace within the jar was measured for TVH, in parts per million by volume (ppmv). The PID was calibrated in the field prior to use using a 100 ppmv isobutylene in nitrogen standard.

Laboratory Analytical Procedures

Select soil and all groundwater samples collected from new and existing wells were analyzed in the laboratory for the presence of gasoline range total petroleum hydrocarbons; benzene, toluene, ethylbenzene, and total xylenes using GC/MS and EPA Methods 8260B, 8015B, and 8021B. Select groundwater samples were analyzed for methyl tertiary butyl ether and other oxygenates including: ethyl tertiary butyl ether, tertiary butanol, diisopropyl ether, and tertiary amyl methyl ether using EPA Method 8260B.

B

FIELD DATA AND SAMPLING SHEETS

Field Data Sheet Depth to Water Data Form Site Information 650467 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. Project Address KCE514 Project Number Alameda Alameda County California State Water Level Equipment Measured By: Electronic Indicator name Oil Water Interface Probe Notes: Other (specify) First DTW Total Depth SPH Thickness Depth to SPH DTW Order Well ID Time (24:00) (toc) or tob) Total Depth (toc or tob) (too or tob) (toc or tob) Notes (describe SPH): 11 37 #3 MW-1 18.73 1134 #2 MW-2 9.43 18.40 1137_ #1 9.19 MW-3 18.70

1/6

winn

Signature:

Field Data Sheet

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. Santa Cruz, CA 95062 (831) 475-8141 MW-1 KCE514 Project Address Well/Sample Point ID Project Numb Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Electronic Indicator → Bailer Diposable Teflon #: ___ Oil Water Interface Probe Submersible Pump; type: _ Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot total depth = /8.73 0.75 in. 0.023 Purge Notes: depth to water 1 in. 0.04 linear feet of water = 2 in. 0.17 117 gallons per linear foot X 4 in 0.67 1.52 gallons per casing = 6 in. 1.5 number of casings X other calculate 4.57 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: Nicircle Y Sampling Delay?: Nardo Y gallons temp color turbity odor (24:00)(purged) (units) (us @ 25° C) (°F circle °C) (see below) NTU or see below (see below) 1220 start 1223 1,90 volume 1 154 5 your hvy. mod. 1225 3.00 16,9 volume 2 マリノ 206 4 mod. sitronc 1227 4.75 volume 3 7.06 217 16.8 u 11 volume 4 complete brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well ABailer Diposable Teflon #: Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) nw-1 050407 1240 Sampled By: Dupe # 12:00 name # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8020 or 8260B) 2 MIBE (8270) (HQ) Fuel Oxy (8270) no notoe Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HÇI TPH diesel (8015M) 1 filer amber none Metals (8010) 500 ml plastic HNO: with Other (specify) Signature:

Field Data Sheet

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. MW-2 KCE514 Santa Cruz, CA 95062 (831) 475-8141 Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Electronic Indicator Bailer Diposable Tellon #:_ Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation gallons per casing Purged By: diameter linear foot name total depth = 18.40 0.75 in. 0.023 Purge Notes: 1 in. 0.04 linear feet of water = 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 6 in. number of casings X other calculate 4.57 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: Natche Y Sampling Delay?: N circle Y gallons EC temp color turbity (24:00)odor (purged) (units) (us @ 25° C) (°F circle %) (see below) NTU or see below (see below) 1200 start 1703 50 volume 1 113 7.31 16.0 Syoun my. moo. 12.05 00 7.02 volume 2 116 15.6 1 1 21 1208 volume 3 6.94 121 15.6 11 11 u volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well **⋈** Bailer Diposable Tellon #: ___ Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) 050407 1220 Sampled By: Dupe # 12:00 name # of Cont Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8020 or 8260B) る MIBE (8270) Fuel Oxy (8270) ho mitte Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI TPH diesel (8015M) 1 liter amber Inone Metals (8010) 500 ml plastic HNO. with Other (specify) Signature:

Field Data Sheet

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. MW-3 Santa Cruz, CA 95062 KCE514 (831) 475-8141 Project Numbe Alameda Alameda California County Purge Information Water Level Equipment Purge Equipment Electronic Indicator Bailer Teflon #; Diposable Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot total depth = 18.70 0.75 in. 0.023 Purge Notes: depth to water - 9.19 1 in. 0.04 linear feet of water = 1.51 2 in. 0.17 gallons per linear foot x . 17 4 in. 0.67 gallons per casing = 6 in. 1.5 number of casings X other calculate 4.85 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Defay?: N cirdo Y time pН EC temp color turbity odor (24:00)(purged) (units) (°F circle (u s @ 25° C) (see below) (NTU or see below (see below) 1145 start 1148 1.50 8.56 volume 1 208 18,0 3 mus wood. 5/15/ 8.09 17.6 volume 2 4 i 1152 5.00 volume 3 7.76 197 17.5 ξı hvu. L. volume 4 complete neavy, moderate strong, moderate slight, none brown, yellow cloudy, clear Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Bailer Diposable Teflon #: ___ Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) NW-3 650407 1200 Sampled By: Dupe # name # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8020 or 8260B) ∕40 mì He! 3 MIBE (8270) Fuel Oxy (8270) ho M43€ Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI TPH diesel (8015M) 1 liter amber none Metals (8010) 500 mt plastic HNO. Willer Other (specify) Signature:

4/,



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Former Holland Dil	Project #: 4CE514
Job Address: 900 Central Ave. Alameda	Date: 050407
Weather Conditions: Always and A	Personnel:
Equipment on site: smtruch sampling equipment. Arrival Time: 1/20	
Arrival Time: 1/20	
Departure Time: 1250	
FIELD NOTES:	
Neview 5#5P uponarnivel, prepare for	- unick
1130 Begin OTW measurements	
1140 Bresin purch colonotron	
1145 Brain Sampling.	
1145 Begin Sampling. 1240 Filuish 11 , begill clean 1770 and	Lumbra transfera
One full drum on site	
	W
Signature: '-	1MM
	······································



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293 www.torrentlab.com

CHAIN OF CUSTODY

Į	LAB WORK URDER NO	

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: RRM, Ihc		, , , , , , , , , , , , , , , , , , ,				angewar in wangsage								······································
Address: 2560 Soquel City: Santa Cruz Stat Telephone: 83/4758141 FAX: REPORT TO: Matt Nov. of	An #20°	7		Locati	ion of San	npling: 🕴	CCES	514	, 90	X) C	entr	al A	ر عا	Alameda
City: Santa Cres 7 State	0: 01		O=2	Purpo	se: Q	GW	7	/					7	T. POOLEN
Telephone: 83/475 8141 FAX:	E. UN	∠ip Code >フィ/ぐ	: 78062	Specia	al Instruct	ions / Com	ments:	ん	6	u+1	3E	plea:	50	
REPORT TO: Matt Naemp f	SAMPLED (4.4	14		ļ					8260	OB				
TURNAROUND TIME:		र ग्रिक्ट			,				EMAIL: ,	mat	errm	scicon	Flabolo	taemusc.com
	SAMPLE TYPE:		REPORT FO	RMAT:	st ist	崩		Ì				7		1,000
10 Work Days 3 Work Days Noon - Nxt E 7 Work Days 2 Work Days 2 - 8 Hours	Day Storm Water Waste Water	Air Other	QC Level I	v	1011 Lis 1010 L RTEX		_		hetals					11111111
5 Work Days 1 Work Day 1 Other	Ground Water Soil	Utner	QC Level I' EDF Excel / EDI	ם ם	608 - 8	Motor Oil	Pesticide - 8081)82	Metals CAM - 17	List V	,		Ri	ANALYSIS EQUESTED
					2A 82 2A 82 IP G	ygen. ygen. P Die	sticid	PCB - 8082	10 10 10 10 10 10 10 10 10 10 10 10 10	o Full ts On			1	
LAB ID CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX		ONT		10 8 100		ے 7	etais] LUF] 827] PAF				
MW-1 0	50407/1240	4		L VOAs			1 -		¥ L		 		R	EMARKS
MV-2	1 1220	1									 			
MW-3	/ 1200	1,	-1, -	1.										
	V , 2 -	-V		<u> </u>	×									
-														
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Relinquished By: Print:	Date:													
Relinquished By: Relinquished By: Relinquished By: Print: Print:	Date: 05040	07	35	R	eceived B	λ: λ:	1=7	Print:			Date:		Time	3: 5 2 7
2 Print:	Date:		ime:	R	eceived B	y: ''	F	rint:	<u>u</u>		フ・レ Date:	1-0	7 Time	35Pm
Were Samples Received in Good Condition?	es NO Samp	les on Ice?	Yes [lothod -CO	L			<i>j</i> .					
NOTE: Samples are discarded by the laborator	y 30 days from date of	receipt un	less other arra		ethod of S -ments are		ar ?	20/	0/7-	– Sai	nple sea	als intact?	? 🔲 Yes	☐ NO ☐ N/A
Log In By: Da	te:	j j	In Reviewed I		wiiio aic	mauc.		D/				Page .		of <i></i> _



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Kulcher	Project #: KCE514
Job Address: 900 Central Arc	1
Weather Conditions: Foggy to AM Sun in PA Equipment on site: ROM White to Least (2001)	Personnel: Oche Towns and
Equipment on site: RRM Vehicle / Soil Sampling - Logging	lann
Arrival Time: 0730	ictus: Del Secio
Weather Conditions: Foggy 10 AM Sun 10 PM Equipment on site: RRM Vehicle Suit Sampling - Logging Arrival Time: 0730 Departure Time: 1700	Exploration Geosciu.
FIELD NOTES:	
Preise on site. Tog DTW in wells on 900 Central	ARI Part of Suffer Aux
$[m\omega-3)$ 10.43 /0745 $[m\omega-3]$ (0.53 /0747 $[m\omega-1]$	10 88 10 7497
- Meet we sep (Consiste Lutter) from Del Secco and il	inct location of 6'ex
well (northern most corner of Ninter st w/ being in CA	-61 ROW). After all
well locations on eat, head-augus to 41 bys to ele	or for uplition Daill
MW-5 fist, simpling continues by Log simples for Ir	thelon of 10ther for
analysis Meet with well impactor (Vicky Handle)	and ACEHO CO
Stephen Plunkett. Instay MW-4 is some momen as	MW-5 loggin Contounds
Mismil pro 6, Togging Samply every 5 feet. Je	+ vally-10' som
18-6' Sand, 2' Bestonets H' court grout. Mea	sur DIW in wells offer
- Casing is jet collect composite Sumply than 3 dr	Just of Ser) withha
Store on site. Losure that sidewalk work on	a litra wills no intelled
Is graphly channel before leavily lite.	
Signature:	



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Kelles er	Project #: ka=514
Job Address: 900 Central Ave	Date: \$-9-07
Weather Conditions: Sun	Domanal
Equipment on site: TRAY Truck took Samother to	puip; traffic central escip.
Arrival Time: 0730	July harne remoting
Departure Time: 2630	23 5
<i>O</i> /	

FIELD NOTES:

Arrive on site; locateproposed SB = set up traffic control Signs/ cones Meet al willer and unduct safety muthy: Sign SHOP. Det up on SB. 1, hard-auger to 4'; will to 24' Sherp contact (color) is somple line from 7.5 indicte staining from hydrocosons. SPD through out until = 20! 5B2 in location adjaced to hedge in front of opt building. Retwel @ hard argan @ 4'-idicto pine Mare location 7-8' Som and re-drill. SPO and soil string poted @ 10,5-11,5 and throughour sample until 2/85' When impact appears to be less Drill to 26' to confirm soil is not From impacted byard 191. Drill Step out location adjoint to driveway suts of SB-1. Soil appear to not be impacted in stringer SCO to 16', Drill step out location in street in fact of SB-1. Note impach sill 75-8' 550. 11.11 SB-5 a-10-14 mot al 3B-4. Hit refer d @ 21' bgs at more a foot away of drillto 121. Shorp contest in color and order in soil e of borry, Per ACCEITS request, locate point Serious PM-EBZ und dill SB-6 adjust to com is 9th St. Dail to 16; 1- visis impact or olars in soil to aptrof buring. Wrop work only blen site; back fill soil bong of out coast.

Signature:		
	The state of the s	

Field Data SI						<u></u>		
Depth to Wate Site Information 900 Central Ave. Project Address		0823	307	KCE514 Project Number	· · · · · · · · · · · · · · · · · · ·	RE	Sant	Soquel Ave. #202 a Cruz, CA 95062 (831) 475-8141
Alameda Cny		Alameda County		California State				(881) 11.0 51.71
Water Level Equipn			Measured By:	name				······································
Oil Water Interfac			Notes:	Hang				
		7		First DTW	T T-(1) D			1
DTW Order	Well ID	Time (24:00)	Total Depth	(toc) or tob)	Total Depth (toc or tob)	Depth to SPH (toc or tob)	SPH Thickness (toc or tob)	Notes (describe SPH):
#2	MW-1	12:52	18.73	12.23				
#1	MW-3	12:48	18.40°					
#5	MW-4	1300	17.95	11.63				18.30
#6	MW-5	1304	117.85	14.56				18.0
#7	MW-6 RW-1	1254	19.05	11.52				17.90
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	11, 40 3		Total de	oth after	49 19.85
					,		opment.	
)		
						<u></u>	,	
			· · · · · · · · · · · · · · · · · · ·					M

Signature:

Field Data Sh						111		
Groundwater	Sampling Forr	n						
Site Information								Soquel Ave. #202 Cruz, CA 95062
900 Central Ave. Project Address			MVV-1 Well/Sample Point	KCE514 Preject Number	<u>-</u>			331) 475-8141
Alameda		Alameda		California		(2)		
City Purge Information		County		State				
Water Level Equipm	nent		Suga Environment	· · · · · · · · · · · · · · · · · · ·				
Electronic Indicat			Purge Equipment Bailer	Diposable	Teflon #:			
Oil Water Interfac				ump; type:				
Other (specify)			_			$(\circ$		
	Purge Calculation		casing	gallons per	Purged By:	(L. E)		
			diameter	linear foot	3,	лате		-
	total depth	= 18.73	0.75 in.	0.023	Purge Notes:			
	depth to water	. 12.23	1 in.	0.04				
	linear feet of water		2 in.					
				0.17				
9	allons per linear foot		4 in.	0.67				
	gallons per casing	•	6 in.	1.5		····		
	number of casings	x <u>3</u>	other	calculate				
	calculated purge	= 3.34	1 cubic foot	t = 7.48 gallons	Purged Dry?: N	Loreto Y	Sampling Delay	?: Nicircle Y
	time	gallons	рН	EC	temp	color	lurbity	odor
	(24:00) 7355	(purged)	(units)	(us @ 25° C)	(°F circle (C)	(see below)	(NTU or see below	(see below)
start		0						
volume 1	1357	1.25	6.75	157	22.6	clardy	mod.	strong.
volume 2	1359	2.50	6.79	141	Z0.3	n	N	i l
volume 3	1401	3.50	6.80	138	19.7	ૌ	400	\\\
volume 4								
complete			JACON DESCRIPTION					AT SANGRUMAN
complete						brown, yellow	neavy moderate	strong, moderate
Groundwater Sampli	no loformation		WT-000-1-1-1			cloudy, clear	light, trace	signt, none
Sample Type	ng mormation		Sampling Equipment					
Monitoring Well		_			Tellon #:			
Extraction Well		j	Submersible Pump					
Domestic Well		į	Sampling Port					
Other (specify)		[Other (specify)					
0								
Sample ID	Date	Time (24:00)				-60		
MW-1	082307	1410			Sampled By:	•		
Dupe #		12:00				name		
# of Cont.	Analyses (check	and circle)	Container/Size	Preservative	Sampling Notes:			
	TPH gas (8260B)						
	BTEX (8260B)		40 ml		-		***************************************	
3	Fi		10 .0	1/50				
	MtBE (8270)			HQD				
	Fuel Oxys, no Mi		V9A/			***************************************		
	Other (specify) _							
	VOCs (8010 or 8	240 or 8260R)	40 ml VOA	нсі				_
	=	,			*******			
	TPH diesel (8015	avi)		none				
	Metals (8010)		500 ml plastic	HNO3		1 1 1 1		/
	Other (specify)				Signature:	halas		

Field Data Sheet Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-2 KCE514 Project Address Project Numbe Alameda Alameda California City Purge Information Water Level Equipment Purge Equipment Electronic Indicator **√**∏Bailer Diposable Teflon #:_ Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot name total depth = 18.40 0.75 in. 0.023 Purge Notes: depth to water - /1.95 1 in. 0.04 linear feet of water = 6. 2 in. 0.17 gallons per linear foot X 17 4 in. 0.67 gallons per casing = /, to 6 in. 1.5 number of casings X other calculate calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: Nicacle Y Sampling Delay?: N crcle Y time ρH EC temp color turbity odor (24:00)(purged) (u s @ 25° C) (units) (°F circle(°C) (see below) (NTU or see below (see below) 340 start 343 7.18 21.5 5 mon volume 1 hou 4.1/0 6.91 50 20,5 /1 8 a volume 2 u. 6, 8 3 u 82 9.9 1 volume 3 volume 4 complete prown, yellow cloudy, clear neavy, moderate light, trace strong, moderate stight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Bailer Diposable Teflon #: Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) 1355 1W-Z 082307 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) Ивтех (8260В) 40 h MIBE (8270) Fuel Oxys. no MIBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI



TPH diesel (8015M)

Metals (8010)

Other (specify)

1 liter amber

500 ml plastic

none

HNO₃

Signature:

Field Data Sheet

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-3 KCE514 Well/Sample Point ID Project Numbe Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Electronic Indicator Diposable Bailer Teflon #: Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation Purged By: casing gallons per diameter linear foot name total depth = 18.70 0.75 in. 0.023 Purge Notes: depth to water - 11.63 0.04 1 in. linear feet of water = 7.07 2 in. 0.17 gallons per linear foot X _ 4 in. 0.67 gallons per casing = 1.20 6 in. 1.5 number of casings X other calculate calculated purge = . 1 cubic foot = 7.48 gallons Purged Dry?: Nicirde Y Sampling Delay?: Nicitale Y time gallons EÇ temp (°F circle(°C) pΗ color turbity odor (24:00)(purged) (units) (us @ 25° C) (NTU or see below (see below) (see below) 1375 start 1329 146 23.6 Svown mod. volunie 1 now 1331 2.50 45 134 22.0 14 volume 2 1333 3.75 94 u 20.8 HU V. u volume 3 volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate sight, none Groundwater Sampling Information Sample Type Sampling Equipment で Monitoring Well Z Bailer Diposable Tellon #: ____ Extraction Well Submersible Pump; type: ____ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) MW-3 1340 882307 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) HCI) MtBE (8270) Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI TPH diesel (8015M) 1 liter amber none Metals (8010) 500 ml plastic HNO₂ Other (specify) Signature:

Field Data Sheet

Groundwater Sampling Form							
Site Information						2	560 Soquel Ave. #202
900 Central Ave. Project Address		MW-4 Wet/Sample Point	KCE514 iD Project Number	_			anta Cruz, CA 95062 (831) 475-8141
	Alameda		California		10000		
City Purge Information	County		Stato				
Water Level Equipment		Discon Continued					
Electronic Indicator		Purge Equipment	t -∰Diposable	□ *			
Oil Water Interface Probe		<u></u>	ump; type:	Teflon #:			
Other (specify)))				
					()		
Purge Calculation		casing	gallons per	Purged By:		******	
total depth =	1390	diameter	linear foot	_	name		
		0.75 in.	0.023	Purge Notes:	1 3	, i i	f' A
depth to water -	11.73	1 in.	0.04	Develop	mut she	est all	ached
linear feet of water =	6.22	2 in.	0.17	,			
gallons per linear foot X			行				
		4 in.	0.67				
gallons per casing = _		6 in.	1.5				
number of casings X	70	other	calculate				
number of casings X calculated purge	3-17-1001	1 cubic foo	_	Purand Da.2: N			
		1 Cdbic 100	t = 7.48 gallons	Purged Dry?: N	circle Y	Sampling D	elay?: N cardle Y
time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color	turbity	odor
145)	· · · · · · · · · · · · · · · · · · ·	(dints)	(DS @ 25 C)	(Parcie C)	(see below)	(NTU or see b	elow (see below)
start 7750	0						
volume 1			1			'	
volume 2	4	1	1 -1	Λ			
(20)	deve	topmen	$\mathcal{A} \rightarrow \mathcal{A}$	- 			
volume 3							
volume 4							
complete							
	***************************************				brown, yellow		ate strong, moderate
Groundwater Sampling Information	·····				cloudy, clear	light, trace	stignt, none
Sample Type	Sa	ampling Equipment					
Monitoring Well			4.1	Teflon #:			
Extraction Well			o; type:				
Domestic Well		Sampling Port					
Other (specify)		Other (specify)					
Sample ID Date T	îme (24:00)				10		
MW-4 082307	1525			Sampled By:	\$		
	·			Sampled by,	2000		
	2:00				name		
# of Cont. Analyses (check and	circle)	Container/Size	Preservative	Sampling Notes:			
TPH gas (8260B)							
BTEX (8260B)		40 ml			·		*****
		7.01.	<u> </u>		····	· · · · · · · · · · · · · · · · · · ·	
MtBE (8270)			(Hall				
Fuel Oxys, no MiBE	(8270)	/vo/x					
Other (specify)							

VOCs (8010 or 8240	or 8260B)	40 ml VOA	HCI				
TPH diesel (8015M)		1 liter amber	none				
Metals (8010)					40		
	İ	500 ml plastic	HNO ₃		111	^	
Other (specify)				Signature:			



Well Development Form

General Information

Well Construction Information

Well Development Summary

Data OS TAR	The action thrormation	well Development Summary
Date:082307 Well ID: MU-4	Well Diameter: 2"	Estimated Purge: 10. 61
Station / Project #: KCE514	Well Material: PV C	Actual Purge: 10:25
Site Address: 900 Dentral Ave.	Well Total Depth: 17.95	Well Type:
City: 4 (ginne	Screen Interval:	
County/State: Alameda (1)	Filter Pack Interval:	Groundwater Monitoring Well:
	Filter Pack Material:	Groundwater Extraction Well:
	Table 1 don 1 date 1 date.	Sparge/Dual Purpose Well:

/		
<u> </u>	Well Development Method	
(16)	Submersible Pump	
L	Surge Block / Swab Other	}

Well Development Data

TIME	DI	EPTH		LONS	<u>relopmen</u>		EASUREM	DENTS	
Start	To Water	To Bottom	Pumped		pH	Conductivity		Turbidity	Notes
1450/14	11.73	17.95	1.00	1,00	7.07	145	24.1	Flary.	hore
1459			1,50	2,00	7.13	126	21.8	1	2.1
1501			/, D∂	3,∞	7.10	20.4	20,4	Lt)\
1503			1,00	4,00	7.03	115	20.1	મ	21
1505			1,00	₹.∞	7,00	114	19.9	۴l	4
1507			1,00	6.00	6.96	11 5	19.7	4	u
1509			1,00	7.00	6.94	117	19.7	ન	И
15/1			1.00	8, 20	6.77	113	19.9	11	A
1513			1.25	9,25	6.95	114	11.7	2,	<i>μ</i> 1.
1515		18.00	1.50	10, 75	6.94	112	19.6	4	u s
525	Sample	d					1 7 8)	æ	

Signature: RRM, Inc.

Field Data Sheet

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-5 KCE514 Project Address Well/Sample Foint ID Project Number Alameda Alameda California City Purge Information Water Level Equipment Purge Equipment Electronic Indicator Bailer Diposable Teflon #: Oil Water Interface Probe Submersible Pump: type: Other (specify) _ Other (specify) Purge Calculation gallons per casing Purged By: diameter linear foot total depth = 17.950.75 in. 0.023 Purge Notes: Development sheet attached. depth to water -1 in. 0.04 linear feet of water = 6,40 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 1,09 6 in. 1.5 number of casings x LO other calculate calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: Narde Y Sampling Delay?: Norce Y EC ρH temp color turbity odor (24:00)(purged) (us @ 25° C) (units) (°F circle °C) (see below) (NTU or see below (see below) start volume 1 volume 2 volume 3 volume 4 complete heavy, moderate strong, moderate slight, none brown, yellow cloudy, clear Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Z Bailer Diposable Teflon #: Extraction Well Submersible Pump; type: Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) MW-5 1600 082307 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) 10 m He MtBE (8270) Fuel Oxys, no MIBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI TPH diesel (8015M) 1 liter amber none Metals (8010) HNO, 500 ml plastic Other (specify) Signature:



Well Development Form

General Information

Well Construction Information

Well Development Summary

Dot 0 62 707 ***	·	" on Development Summary
Date:082307 Well ID: MU-5	Well Diameter: 2/	Estimated Purge: /ð, 77
Station / Project #: KCES/4	Well Material: PVC	Actual Purge: L1,00
Site Address: 700 Central Ave.	Well Total Depth: 17.95	Well Type:
City: Alameda	Screen Interval:	Groundwater Monitoring Well:
County / State: Alameda, Ch	Filter Pack Interval:	
Field Technician: WILLS	Filter Pack Material:	Groundwater Extraction Well:
		Sparge/Dual Purpose Well:

Well Development Method

		C. crobinett Metitoff	
Submarcible D.	\n \	 	······································
Submersible Pu	mpBailer V	Surge Block / Swab	Other
	1286	our go Diock / Swat	_ Other
			
. ~ ~ ~			

1525

Well Development Data

TIME	<u>D</u>	EPTH	GAL	LONS			EASUREN	FEATOG	
Start	To Water	To Bottom	Pumped		рН	Conductivity		Turbidity	Notes
1530	11.56	17.95	1.00	1,00	6.88	121	21.5	H1/2.	hu odur
1532			1.25	2.25	6,84	117	20.7	41	ti.
<i>534</i>			1.25	3.50	€84	114	26,4	2 }	ч
1537			1.00	4.50	6.86	109	20.3	ч	ч
1339			1.∞	5.50	6.84	107	20.3	h	.1
1541			1.00	6.50	6.85	105	20.3	и	и
1544			1,25	7.75	6.82	_103	20.3	A	11
1546			1.00	8.75	6.83	1 80 \$	20.3	Į (k
1548			1.25	10.00	6.87	100	20.4	/1	LI
1250	1630	18.00	1,00	11.00	6.89	99	204	<i>t</i> 3	L
ده.	Samples	L							

Signature:	miz L	
		RRM, Inc.

Field Data Sheet

Groundwater Sampling Form		
Site Information		2560 Soquel Ave. #202
900 Central Ave. Project Address.	MW-6 KCE514 Well/Sample Point ID Project Number	Santa Cruz, CA 95062 (831) 475-8141
Alameda Alameda	California	
City County	State	(03.5)
Purge Information		
Water Level Equipment	Purge Equipment	
Electronic Indicator	Bailer Diposable Tellon #:	
Oil Water Interface Probe	Submersible Pump; type:	
Other (specify)	Other (specify)	10
Purge Calculation	casing gallons per Purged E	Au del
	diameter linear foot	name
total depth = 17,10		, ,
	0.73 III. 0.023 Purge NC	nes:
depth to water - 11.52	1 in. 0.04 2tv	relopment sheet atteched
linear feet of water = 5.5%	2 in. 0,17	
gallons per linear foot X 17	4 in. 0.67	
	4 m. 0.07	
gallons per casing = 0.95	6 in 1.5	
number of casings $\frac{10}{2}$ calculated purge =	other calculate	/-
calculated purps = 2 54	1 cubic foot = 7.48 gallons Purged D	ry?: N crop Y Sampling Delay?; N crote Y
		ry?: N crob Y / Sampling Delay?: N crob Y
time gallons (24:00) (purged)	pH EC temp	501
1600	(units) (us @ 25° C) (°F circle	*C) (see below) (NTU or see below) (see below)
start 1 8 00 0		
volume 1		1
volume 2 Op Nex	relopment the	rent
	101010101111011111011111111111111111111	T V V
volume 3	·	
volume 4		
complete		
		prown, yellow neavy, moderate strong, moderate
		cloudy, clear light, trace slight, none
Groundwater Sampling Information		
1 / - / -	Campling Equipment	
	Bailer Diposable Teflon #:	AND COLORS OF THE COLORS OF TH
Extraction Well	Submersible Pump; type:	
Domestic Well	Sampling Port	
Other (specify)	Other (specify)	
Sample ID Date Time (24:00)		
1		42
MW-6 082307 1615	Sampled E	By:
Dupe # 12:00		name
# of Cont. Analyses (check and circle)	Container/Size Preservative Sampling	
17	Container/Size Preservative Sampling	Notes:
☐ TPH gas (8260B)	'	
BTEX (8260B)	40 ml (
3 MIBE (8270)	HCD	
Fuel Oxys, no MtBE (8270)	VO&/	
Other (specify)		
VOCs (8010 or 8240 or 8260B)	40 ml VOA HCI	
TPH diesel (8015M)	1 liter amber none	
Metals (8010)		()
	500 ml plastic HNO ₃	
Other (specify)	Signature:	_ <i>u</i> ~



Well Development Form

	General Inf		w	ell Constr	uction In	formation	Weil	Developmen	
Date:	182307	Well ID: 刈む.		Diameter					
Station	/ Project #:	4CE5:4	Well	Material:			Estimated		54
Site Ad	dress: 9000	Sentral Aur		Total Dep			Actual Pu		-45a .
City:	Hame	100		n Interval			Well Type		
County	/ State: A/4	imeda co		Pack Inte			Groundwate	r Monitoring	Well: V
Field To	echnician: ८	willis		Pack Mat				r Extraction W	
	<						Sparge/Dual	Purpose Well	:
		*	W	ell-Devel	opment l	Method			
<u></u>	Submersi	ible Pump	Bailer_		rge Block		Other		
1600									
TIME	DE	PTH	CAT	Well Deve	lopment				
Start	To Water	~		LONS		M	EASUREM	IENTS	
 `	 	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity	Notes
1605	11.52	17,10	1.00	1.00	6.78	130	24.1	mud.	novdon
1607			400	2.00	6.80	121	22,2	huy.	, 1
1609			1,00	3,00	6.89	121	21.7	ıl	u
1604		17.90	1.00	4.00	6.98	120	21.3		1/
	well pi	nzed di	y at	~ 4,00					
1615	Samphe	1.							
	•								
						· · · · · · · · · · · · · · · · · · ·			
		<u> </u>							
		j				}			

RRM, Inc.

Signature:_

·Field Data Sheet

62.1.4							
Site Information						2500 0	#202
900 Central Ave. Project Address		RW-1 Well/Sample Point (C	KCE514	_	PR	2560 Soquel Ave Santa Cruz, CA (831) 475-8	95062
Alameda	Alameda		California				
City	County		State		203		
Purge Information							
Water Level Equipment		Purge Equipment					
Electronic Indicator			Diposable	Teflon #			
Oil Water Interface Probe		☐Bailer ☑Submersible Pu	mp type Kec	<u> </u>			
Other (specify)		Other (specify)					
Purge Calculation					60		
Purge Calculation		casing diameter	gallons per linear foot	Purged By:	name		
· ·	19,05	0.75 in.	0.023	Purge Notes:			
depth to water -		1 in.	0.04	Develo	print sh	was attached,	
linear feet of water =	' / }	2 in.	0.17				
gallons per linear foot. X		4 in.	0.67				
gallons per casing =	ا مسر	6 in.	1.5				
number of casings X calculated purge =	523	q other	calculate				
7	1592	1 cubic foot	= 7.48 gallons	Purged Dry?: N	cirde Y	Sampling Delay?: N carde Y	
time (24:00)	gallons (purged)	pH (units)	EC (u s @ 25° C)	temp (°F circle °C)	color (see below)		lor pelow)
start 1410	0					(NEO OF SEC DEION) (See	(2.0%)
volume 1							
volume 2	9	10.00	Ob Me	15/	_ >		
volume 3		1000	<i>P</i>				
volume 4							
complete							
Groundwater Compliant Life					brown, yellow cloudy, clear	heavy, moderate strong, me light, trace slight, r	
Groundwater Sampling Information	_						
Sample Type	S	iampling Equipment					
Monitoring Well	L	Bailer					
		₫	_Diposable	Tellon #:			
Extraction Well		Submersible Pump:	JDipogable type:	Teflon #:			
		Submersible Pump; Sampling Port	type:	Teflon #:			
		Submersible Pump:	type:	Teflon #:			
Domestic Well Other (specify) Recovery Well		Submersible Pump; Sampling Port	type:	Teflon #:	/		
Domestic Well Other (specify) Sample ID Date	Time (24:00)	Submersible Pump; Sampling Port	type:	Teflon #:	<i>_</i>		
Domestic Well Other (specify) Recovery Well		Submersible Pump; Sampling Port	type:		(N)		,
Domestic Well Other (specify) Sample ID RW-1 082304	Time (24:00)	Submersible Pump; Sampling Port	type:	Teflon #:	name		
Domestic Well Other (specify) Sample ID Date RW-1 Dupe #	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	type:	Sampled By:	name		
Domestic Well Other (specify) Sample ID RW-1 082304	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	type:		name		
Domestic Well Other (specify) Sample ID Date RW-1 Dupe #	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	type:	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82307 Dupe # # of Cont. Analyses (check ar	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	type:	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82304 Dupe # # of Cont. Analyses (check an IPH gas (8260B) BTEX (8260B)	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	Preservative	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82307 Dupe # # of Cont. Analyses (check ar	Time (24:00) 15 40 12:00	Submersible Pump: Sampling Port Other (specify)	type:	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82304 Dupe # # of Cont. Analyses (check an IPH gas (8260B) BTEX (8260B)	Time (24:00) 15 40 12:00 Id circle)	Submersible Pump: Sampling Port Other (specify)	Preservative	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82304 Dupe # # of Cont. Analyses (check ar TPH gas (8260B) BTEX (8260B) MIBE (8270) Fuel Oxys, no MtBE	Time (24:00) 15 40 12:00 Id circle)	Submersible Pump: Sampling Port Other (specify) Container/Size	Preservative	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82304 Dupe # # of Cont. Analyses (check an Imperior of Cont.) Analyses (8260B) BTEX (8260B) MIBE (8270) Fuel Oxys, no MIBE Other (specify)	Time (24:00) 15 40 12:00 dd circle)	Submersible Pump: Sampling Port Other (specify) Container/Size	Preservative	Sampled By:	name		
Domestic Well	Time (24:00) 15 40 12:00 Id circle)	Submersible Pump: Sampling Port Other (specify) Container/Size F VOA	Preservative	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82304 Dupe # # of Cont. Analyses (check an Imperior of Cont.) Analyses (8260B) BTEX (8260B) MIBE (8270) Fuel Oxys, no MIBE Other (specify)	Time (24:00) 15 40 12:00 Id circle)	Submersible Pump: Sampling Port Other (specify) Container/Size 40 ml VOA 40 ml VOA H	Preservative	Sampled By:	name		
Domestic Well Other (specify) Sample ID Date 0 82307 Dupe # # of Cont. Analyses (check ar TPH gas (8260B) BTEX (8260B) MtBE (8270) Fuel Oxys, no MtBE Other (specify) VOCs (8010 or 824	Time (24:00) 15 40 12:00 12:00 12:00 12:00 12:00 12:00 12:00 12:00	Submersible Pump: Sampling Port Other (specify) Container/Size F VOA 40 ml VOA 1 liter amber	Preservative HCI	Sampled By:	name		



Well Development Form

General Information

Well Construction Information

Well Development Summary

D / 05 3= 13	· 	parent Sullimity
Date: 072307 Well ID: Nw-1	Well Diameter: 4 "	Estimated Purge: 52.39.
Station / Project #: KCF514	Well Material: PVc.	
Site Address: 500 ceviral Ave.	Well Total Depth: /9,045	
City: Alexandra	Screen Interval:	Well Type: Reavery will
County / State: A labored a / CA	Filter Pack Interval:	Groundwater Monitoring Well:
Field Technician: WIII B.	Filter Pack Material:	Groundwater Extraction Well:
	There i der iviaterial.	Sparge/Dual Purpose Well:

Well Development Method

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i	Submersible Pump / Bailer	0 21	
	Bailer Bailer	Surge Block / Swab	Other
			Oulci
	· · · · · · · · · · · · · · · · · · ·		

Well Development Data

TIME	DE	PTH		LONS	elopmen		EASURE	MENTS	
Start	To Water	To Bottom	Pumped	T ***	pН	Conductivity		7	Notes
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1414			E.25	10.50	6.68	186	21.1	11	thed odor
1417	17.20		5.25	15.75	6.85	175	19.8	13	//
1420			5,25	21.00	1.83	172	19.7	i)	strongador
1423	18.80		5.25	26.25	6.85	161	17.9	L)	H
1426			5.25	31.50	6.84	160	17.8	и	11
1429	19.10	19.80	3.2.S	36.75	6.82)55	19.9	mod.	f)
1432			3.25	42.00	6.82	155	19.9	//	11
1435	19.12		5.25	47.25	6.81	151	19.9	11	()
1438		19.85	5.25	52,50	6.79	147	20.0	light	II.
150	Sampled	1,							

Signature: RI

RRM, Inc.





2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: flolland 6+	Project #: UCE514
Job Address: 900 Central Ar / Alameda	Date: 082307
Weather Conditions: (18 and 14 h 3.	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Equipment on site: truch, sampling equipment Arrival Time: 1200	
Departure Time: /635	
FIELD NOTES:	
Inspect streand comoffwells	apon envited
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Pase to get ; ce.	
1245 Begin Drw mensurements	
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1325 Besin Sampling. 1620 Filmish is and developing wells, be	
1620 Filmish is and developing wells be	514 chean up and water trapter
Drums: 6 soil and 2 nator on sit	~
	11. 11.00
Signature:	

C

WELL CONSTRUCTION AND BORING LOGS AND SURVEY DATA

GeoTracker_XY Report for Monitoring Wells Surveyed at 900 Central Ave, Alameda, CA. by Silicon Valley Land Surveying, Inc. for Remediation Risk Management, Inc.

FIELD_PT_NAME	XY_SURVEY_DATE	LATITUDE	LONGTITUDE	XY_METHOD	XY_DATUM	XY_AC	XY_SURVEY_ORG	GPS_EQUIP_TYPE
MW1	8/20/2007	37.7710314	122.2704785	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW2	8/20/2007	37.7711463	122.2703142	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW3	8/20/2007	37.7711114	122.2704706	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW4	8/20/2007	37.7711496	122.2706539	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW5	8/20/2007	37.7710806	122.2706549	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW6	8/20/2007	37.7710168	122.2706580	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
RW1	8/20/2007	37.7711744	122.2704010	GPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530

GeoTracker_Z Report for Monitoring Wells Surveyed at 900 Central Ave, Alameda, CA. by Silicon Valley Land Surveying, Inc. for Remediation Risk Management, Inc.

FIELD_	PT ELEV_SUR	ELEVATION ELE	V_NELEV	ELEV	ELEV_SURVEY_ORG	RISER_HT ELEV_DESC
MW1	8/20/2007	28.273 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.176 NGS BM HT-0865 Adjusted to NAVD 88
MW2	8/20/2007	28.306 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.18 NGS BM HT-0865 Adjusted to NAVD 88
MW3	8/20/2007	27.688 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.296 NGS BM HT-0865 Adjusted to NAVD 88
MW4	8/20/2007	27.368 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.354 NGS BM HT-0865 Adjusted to NAVD 88
MW5	8/20/2007	27.252 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.32 NGS BM HT-0865 Adjusted to NAVD 88
MW6	8/20/2007	27.238 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.259 NGS BM HT-0865 Adjusted to NAVD 88
RW1	8/20/2007	27.434 DIG	88	2	Silicon Valley Land Surveying Inc.	-0.43 NGS BM HT-0865 Adjusted to NAVD 88

VELL/BOR					<i>ل</i> ا			ATE	: 8-	9.	ം7		*****	R Management, Inc. WELL/BORING: 5B-1 DRILLING METHOD: George 58
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ELL/BOF OMPLET	OING.						CI	TY:	A	da	MA	جأء		WELL CASING: ALLA
ELL/BOF OMPLET	21NG						CC)./S	TATE		10	MEC	la 1	(A WELL SCREEN: NA
ELL/BOF	SING	ببخمع					DF	RILL	ER:		U,	TONE	×	SAND PACK: NA
ELL/BOF	OIMO		<u>a</u>	光	}	ST	Э Ш	~		չ	₹.	GRAPHIC		WATER LEVEL:
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WELL/BORING LOCAT	ION MAP		P.	eme	eibe	tion	Riel	Management, Inc. WELL/BORING: SB-3
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WELLBORING LOCATION MAP Remediation Risk Management, inc. WELLBORING: SB-Y DATE: L-9-07 PROJECT: KCF5141 SAMPLING METHOD: General CILENT: Location Government of Cilent: Location Gove	WELL/BORI	NGLOC	ΔΤΙΩΝ ΜΔΡ		Dam	odia	4100	m:l.	Maria (BODING
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SM Solty Sint, October Ventusian Pan ; 1042-4. 10/5-1/5 Silt Alice 25-901. His sold lowe: An profile straining dump, APD SM Some a above, ison of its straining dump, APD SM As above. Shorp color Change a 9.5-1 from Dark Vellowing Can 10 42-3, to Dark Grown Gan; 596-41. SPO & SISTERIAL SPORTS CONTRACT STRAINING SPORTS (25) 1520 12 500 a 9.5-10									6" risphalt
3 SAL Solly Sint Delle Verlows Pen ; 1042-34. 10(5) Silt Amo: \$5.407. Amount of 1042-34. 10(5) Silt Amo: \$5.407. Amount of 1042-34. Some as about, isonogiste straining of ump. APD 10 Sals by Salve Share take there as a straining of ump. APD 10 Salve Share take there are a straining of unity. 10 Salve Share take there are a straining of the straining of th									
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WELL/BORING	LOCATION MAP	Remediation Risk Management, Inc. WELL/BORING: ハルーリ							
-N. CA-	61	DATE: 6-20-07 DRILLING METHOD: HSA							
7-451	:1	PROJECT: KUES14							
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かしたい	20 5cm	LOCATION: 900 Ca	entrul Arc BORING DEPTH: 181						
A A WINSINS	of the state of th	COURTAIN Alameda	WELL CASING: 2" PVC						
4 3	t .	CO./STATE: A LAND	14 / C4 WELL SCREEN: 18-8 '0.020						
		DRILLER: Explor (1						
WELL/BORING 5	MOISTURE DENSITY BLOWS / FT FIELD TEST PID (ppm)	SAMPLE NUMBER DEPTH (FEET) RECOVERY SAMPLE NIERAL	WATER LEVEL: 11.5 10.43 TIME: 1300 1412 DATE: 6-20-07 6-20-07						
WELL/BORING SECOMPLETION	STAB STAB D (p	AMI UME COVER	DATE: 6-20-07 6-20-07						
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			4" concrete						
21 21			(a) (5)(1) (c) 177 (d) 11/4 (c)						
六十 6 3			ML Siltwi Sand 7.5 VR - 4/4 - Dark Grown: 15% Upry fix Soul 85% Silt; Octasional						
23 69			Clast/nebble (sub-rounted) roots dry						
32 30		3 4	loure; NPO						
			ML Sondy Sit: 10 VR. 416. Dase Hellowin Bin 30-40-10 Sitt; 60-70-10 The Sond, Dry: 100-ce: 1900 oxide string; NPO						
 		ηω·4-5	30-4/1/2 Sift; 60-701/2 harsoni, Ory;						
		372	Loose Hon said strining; NPO						
	D10,8,14 0.0		Summe as obert - relor - 101R 4/4 De-10						
		231.67	Yellowin Brown						
	DP 13,20,24 0.1)	- determine	SM Silty Sund NOYR - 4/4 Duck Yellowin RM						
		75 1327 8	30% sith 70% A're to redin said						
7 mm			damp. NPD						
· Coms A	P 8, 12, 15 0.01	10-1 12-61-1	-SM Same as about						
	M 14,20,21 65		SA Sure welve- Maix						
3	130	o P.5	SM SILL -1 5 75 1/2 - Svan Bour						
	W 30,21,23 6.01	NW4 14 E	自 15%-CILLAC JOIL P59 Miller Seal						
			Wet; NPO						
	13,21,22		110 RECOVERT						
A CONTRACTOR OF THE PARTY OF TH	7,2,4	19 19							
	1 1 2 2 8 -	15							
	N 8,1320 00 M	// 1	[SAN Same as care (1/5-13')						
Manager Comments Comm		16							
	1215,20 01/		St-Poorly Good Sad 10 VR- 4/4 : Dick Yollers						
		349	great, NPD Sill / Good; 75-16 ned in sent						
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-> BO	770MOF BUL	10h 19							
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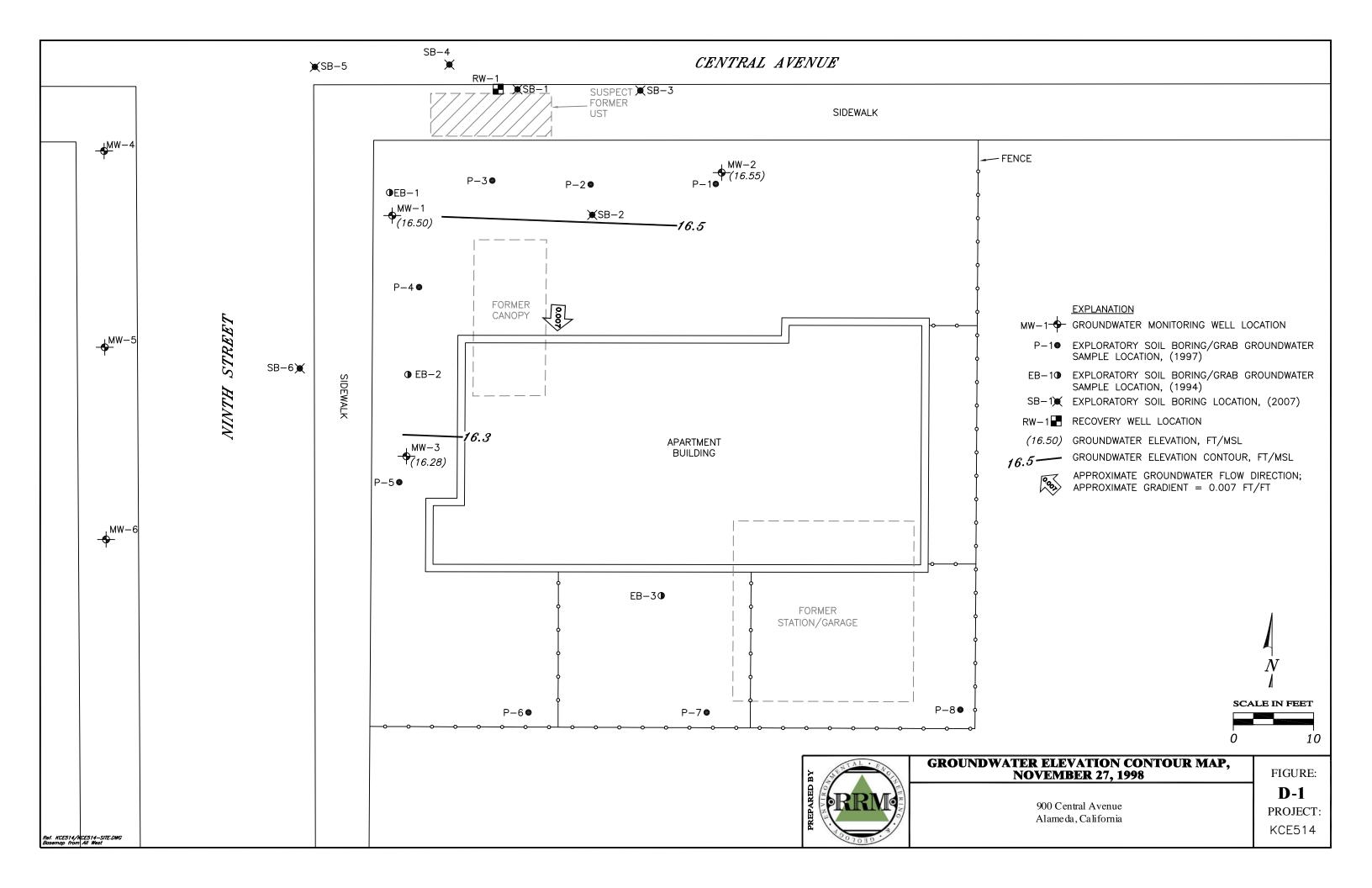
WELL/BORING LOCATION MAP								<u></u>					Risk	Management, Inc. WELL/BORING: MU
-N-MU4 CA 61								DATE	: 6-	20-	0	7		DRILLING METHOD: HSA
	4	P		6	t			PRO	JECT:	1 0	-6	514	'	SAMPLING METHOD: 94
		$\rightarrow \downarrow \downarrow$		~	1			CLIE	NT: /	411	c 4.			BORING DIAMETER: 811
	/4			T,	1	1 () _b v	LOCA	ATION:					Arc BORING DEPTH: 18'
	MIL	.5 /	/	2	1	d^{0}	TANK .	CITY		<u> </u>	M	eda	************	WELL CASING: グ" PVC
\ \	<u>.</u>			2	1) (entrice)	CO./S	STATE:	F	1/4	MILL	14/	1A WELL SCREEN: 18-8 ,0.62
VIL	6	7		/	[! 1	, lo	DRIL	LER:	EX	pl.		71.03	ベノ SAND PACK: 18-6 #3
ľ		i		a	MOISTURE	> L	ST (c	III &		₹	₹.	U	٦,	WATER LEVEL: 10.5 11.1
WELL	_/BC	ORING ETION	SS	EILIZ I		DENSITY BLOWS / FT	FIELD TEST PID (ppm)	SAMPLE	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SWBOL	TIME: 1030 //00
СОМ	PLE	ETION	ᇤ] ₹	SS	N N		₽₽	黄田	18	<u>щ</u>	I≱		DATE: 6-20-07 6-20-07
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<i>L</i> .		(†	1			 		/ '		1		ML	Survey Solt: 104R 3/4 Dork Klowsh
ŚĶ		4.		Τ				<u> </u>	1 , -			1///		201. fine sand 70 ! Gilt , roots , Inne
200		1 1	Т	Π	Г				Z ·		Г			dry 1190
17%		(j #)							3-				SM	Sith Sand 10 YR 5/4 YKILLIN
130		6 14							1 – -					Kn: 15% SH / Air sad; 85% Sand dry;
		~							<i>'</i> -]. .		NPO 1
9//		1777						, par]. 7,7	1			68	Pourly Greefor GOND YR 5/4 Vellowish Brown
1//	\Box	1///			D	4.4.10	3.6	Mw3	->-	16		75		51-MOF 101-for sent ' X51 med Soud
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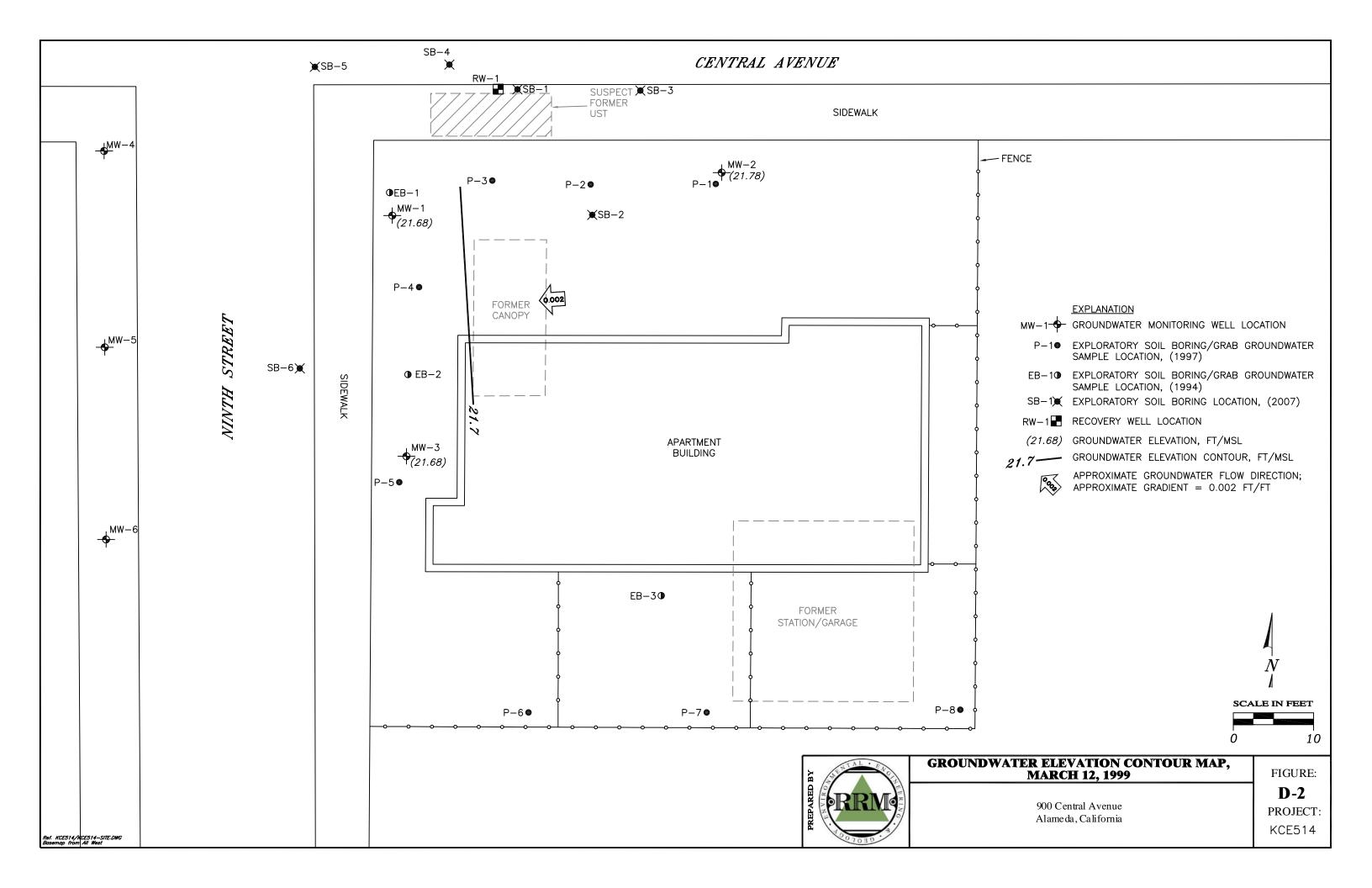
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	WEL	L/BC	PRINC	SS	BILIZ	MOISTURE	DENSITY BLOWS / FT	FIELD TEST PID (ppm)	PE	DEPTH (FEET)		SAMPLE INTERVAL	JIHOVOS	É	SWBO.	TIME: 1525 1622
	CON	APL:	:1101		l S	IS		[::0	Z ₹	병반	18	E E		5	S SSS	DATE: 6-20-07 6-20-07
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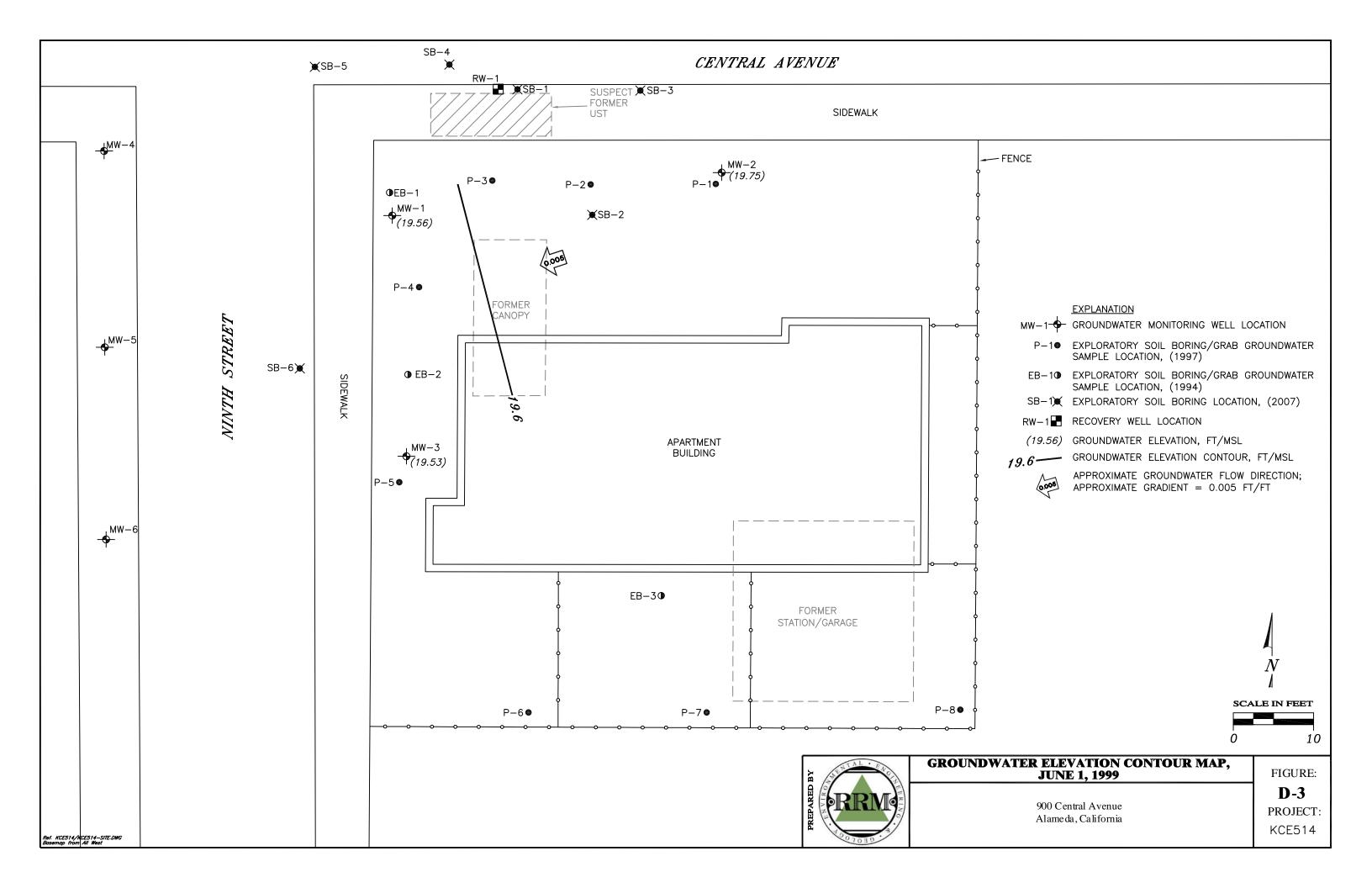
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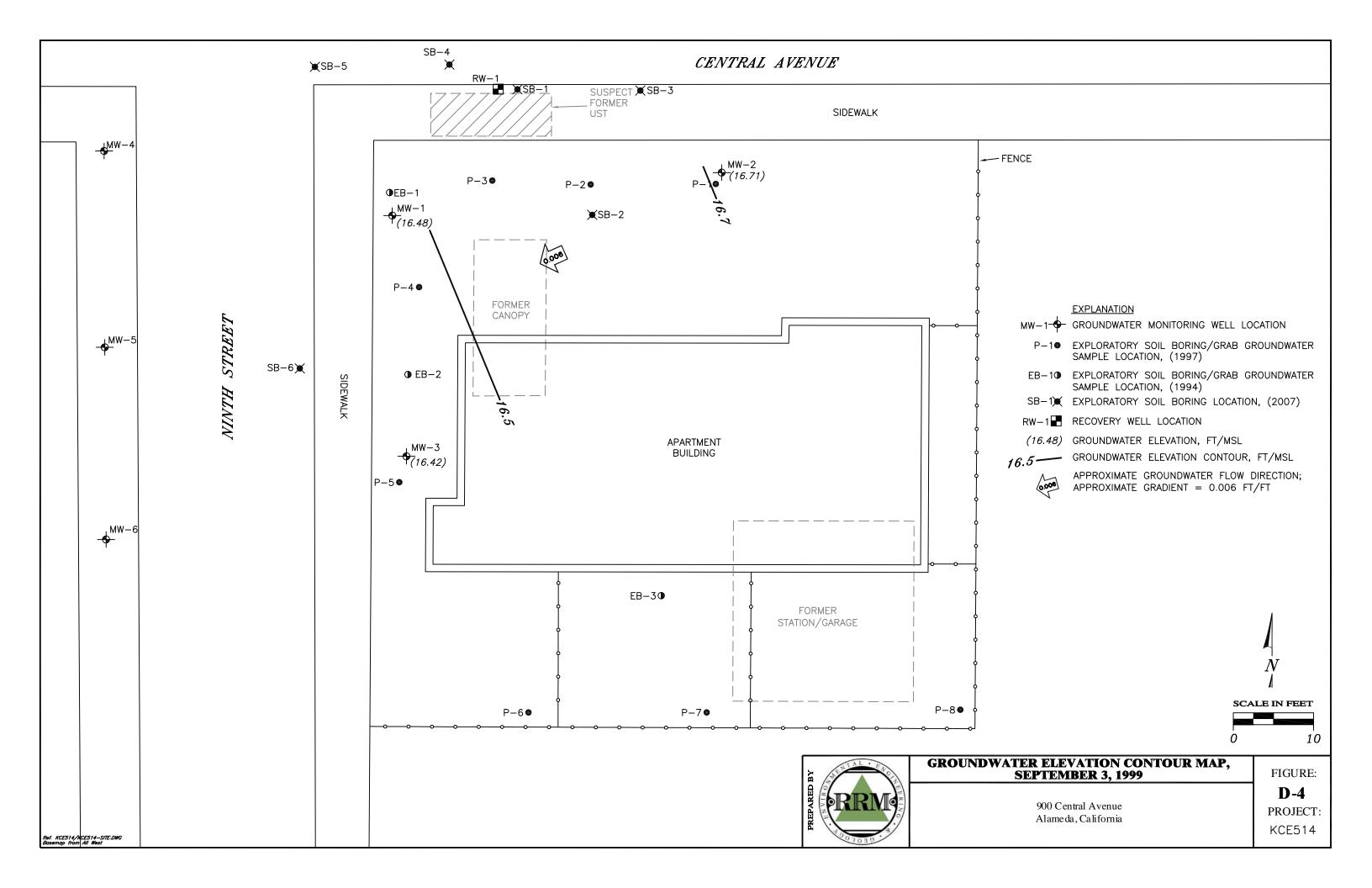
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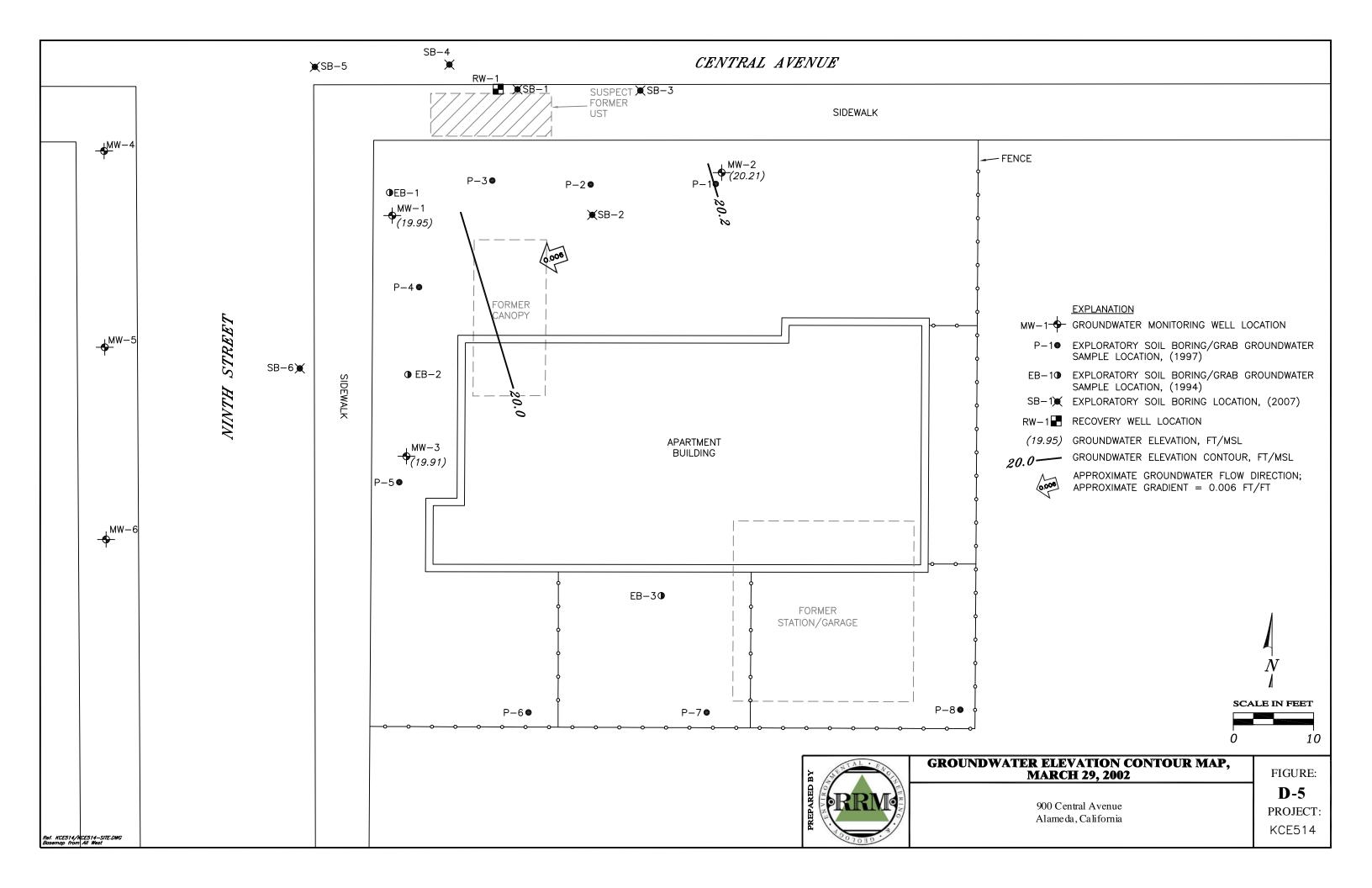
HISTORICAL GROUNDWATER ELEVATION CONTOUR MAPS

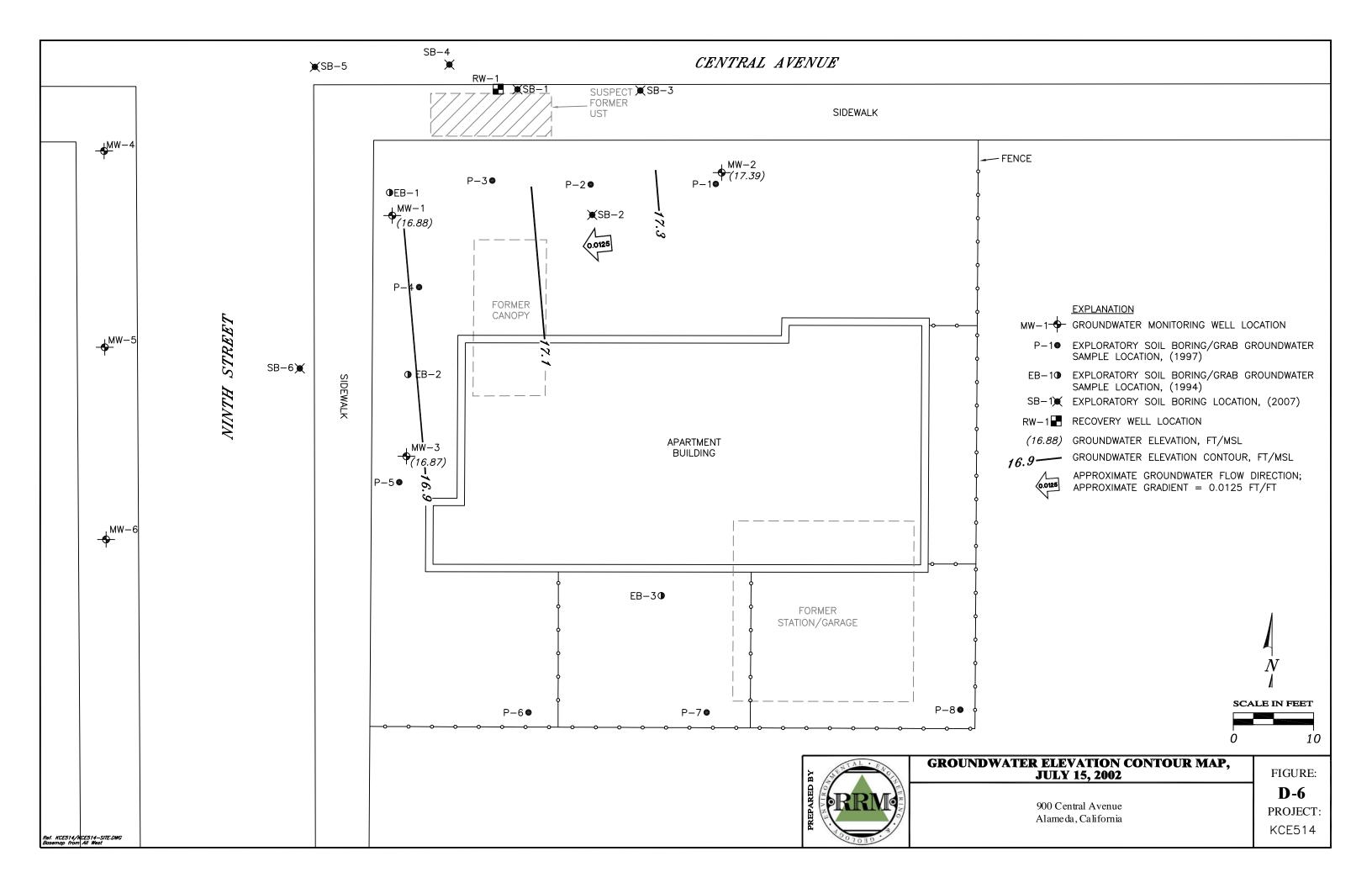


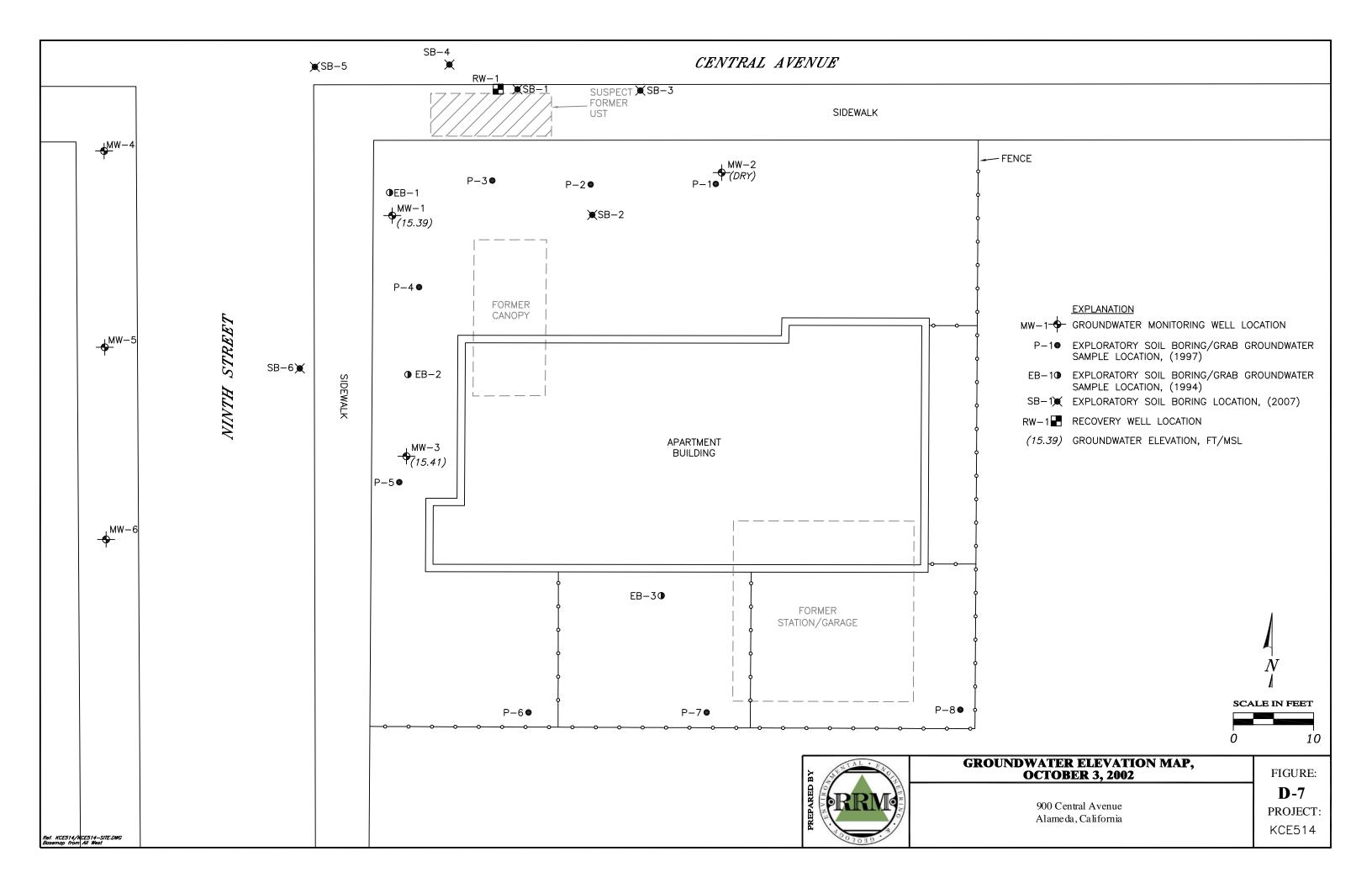


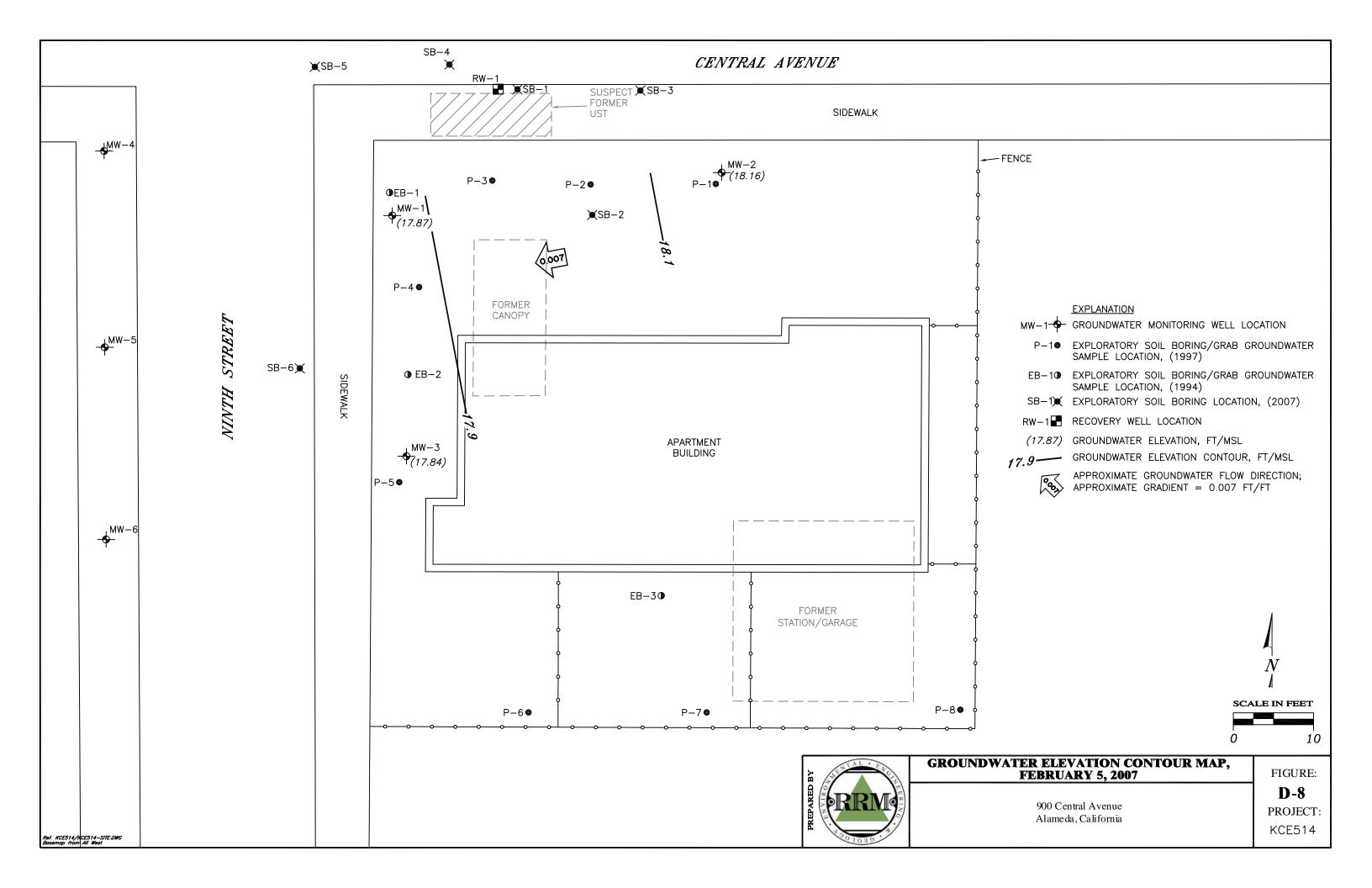














CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matt Kaempf Lab Certificate Number: 56754

Remediation Risk Management-SC Issued: 10/26/2007

2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Global ID: T0600102089

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

Certificate of Analysis - Revision

Note: This revision includes all originally requested analyses and subsequent requests.

On August 15, 2007, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix Test / Comments

Solid VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Hold

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

TPH-Extractable: EPA 3545A / EPA 8015B(M)

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality. If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

C. L. Thom

Laboratory Director

C. L. Thom

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

Lab # • 56754-001	Sample ID: SR-1-7 5	Matrix: Solid	Sample Date: 8/9/2007	8.50 AM

Lab # : 30734-001	Sample ID. SB-1-	1.5			1	viatia. Sono	Sample 1	Jacc. 6/7/2007	0.50 AW
TPH-Purgeable - GC: EPA	`		amples o	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	0.79		1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	C	ontrol I	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	126		65 -	135				Reviewed by: EricK	ium
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	mples o	only)/EF	PA 8021B					
Parameter	Result (Qual l	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	0.034		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	102	65 - 135	Reviewed by: EricKum

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Lab #: 56754-002

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Matrix: Solid Sample Date: 8/9/2007 9:00 AM

TPH-Purgeable - GC: EPA	5030B (or 5035A for	Encore	Samples	only) / EPA 8015B					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	2600		330	170	mg/Kg	N/A	N/A	8/22/2007	SGCA070820A
Surrogate	Surrogate Recovery	y	Control 1	Limits (%)				Analyzed by: JAbi	dog
4-Bromofluorobenzene	358 ***		65 -	135				Reviewed by: Eric	Kum

^{***} Surrogate % recovery is out of QC limits due to sample matrix interference.

Sample ID: SB-1-12

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		330	3.3	mg/Kg	N/A	N/A	8/22/2007	SGCA070820A
Toluene	ND		330	3.3	mg/Kg	N/A	N/A	8/22/2007	SGCA070820A
Ethyl Benzene	31		330	3.3	mg/Kg	N/A	N/A	8/22/2007	SGCA070820A
Xylenes, Total	200		330	3.3	mg/Kg	N/A	N/A	8/22/2007	SGCA070820A

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	108	65 - 135	Reviewed by: EricKum

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

4-Bromofluorobenzene

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

Reviewed by: EricKum

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

Lah # • 56754-003	Sample ID: SR-1-16	Matrix: Solid	Sample Date: 8/9/2007	9.24 AM

Lab #: 30/34-003	Sample ID: Sb-1-10			1	viatrix: Son	a Sample i	Date: 8/9/2007	9:24 AIVI
TPH-Purgeable - GC: EPA	A 5030B (or 5035A for Enco Result Qua	•	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	11	10	5.0	mg/Kg	N/A	N/A	8/20/2007	SGCA070820A
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: JAbi	dog
4-Bromofluorobenzene	107	65	- 135				Reviewed by: Eric	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore Samp	oles only)/E	PA 8021B					
Parameter	Result Qua	al D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	10	0.10	mg/Kg	N/A	N/A	8/20/2007	SGCA070820A
Toluene	ND	10	0.10	mg/Kg	N/A	N/A	8/20/2007	SGCA070820A
Ethyl Benzene	0.31	10	0.10	mg/Kg	N/A	N/A	8/20/2007	SGCA070820A
Xylenes, Total	1.7	10	0.10	mg/Kg	N/A	N/A	8/20/2007	SGCA070820A
Surrogate	Surrogate Recovery	Control	Limits (%)		·		Analyzed by: JAbi	dog

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

I ab # • 56754 004	Sample ID: SB-1-20	Matrix Calid	Sample Date: 8/9/2007	0.21 AM
Lap #: 36/34-004	Samble ID: SB-1-20	Matrix: Solid	Sample Date: 8/9/2007	9:31 AM

245 // 1 3075 1 00 1	зитри 12, 82 1 2			-		a Sumple 2	34101 0/3/2007	7.51 1111
TPH-Purgeable - GC: EPA Parameter	`	core Sampl ual D/P-1	• /	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Contro	ol Limits (%)				Analyzed by: Jabido	og
4-Bromofluorobenzene	91.1	65	- 135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore Sar	mples only)/	EPA 8021B					
Parameter	Result Q	ual D/P-l	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate Surrogate Recovery Control Limits (%)
4-Bromofluorobenzene 99.7 65 - 135

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

Reviewed by: EricKum

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56754-005	Sample ID: SB-1-24	Matrix: Solid	Sample Date: 8/9/2007	9:40 AM
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Lab # : 30734-003	Sample ID. SD-1-2	2 4		1	viatiix. 50m	a Sample i	Date. 6/9/2007	7.40 AW
TPH-Purgeable - GC: EPA	5030B (or 5035A for En	ncore Sampl	es only) / EPA 8015B					
Parameter	Result Q	Qual D/P-1	F Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Contro	ol Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	92.1	65	- 135				Reviewed by: Erick	Cum
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	mples only)	EPA 8021B					
Parameter	Result Q	Qual D/P-1	F Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Contro	ol Limits (%)				Analyzed by: JAbid	og

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Attn: Matt Kaempf

Lab #: 56754-006

Ethyl Benzene

Xylenes, Total

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

N/A

N/A

Sample Date: 8/9/2007

8/17/2007

8/17/2007

11:13 AM

SGC070817

SGC070817

GlobalID: T0600102089

Matrix: Solid

N/A

N/A

Certificate of Analysis - Data Report

Sample ID: SB-2-8

ND

ND

Sample Collected by: Client

Sample Confected by: Chefit

	1							
TPH-Purgeable - GC: EPA	A 5030B (or 5035A for En	core Samples	only) / EPA 8015B					
Parameter	Result Q	ual D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Control	Limits (%)			Analyzed by: JAbidog		
4-Bromofluorobenzene	91.2	65	- 135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore San	nples only)/E	PA 8021B					
Parameter	Result Q	ual D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

mg/Kg

mg/Kg

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	93.5	65 - 135	Reviewed by: EricKum

0.010

0.010

1.0

1.0

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

Lab #: 56754-007	Sample ID: SB-2-11.5	Matrix: Solid	Sample Date: 8/9/2007	11:30 AM
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Lab #: 56754-007 S	ample ID: SB-	2-11.5			I	Matrix: Solid	d Sample I	Date: 8/9/2007	11:30 AM
TPH-Purgeable - GC: EPA 50 Parameter	030B (or 5035A for Result	Encore Qual	Samples D/P-F	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Surrogate	Surrogate Recovery Control Limits (%)							Analyzed by: JAbido	og
4-Bromofluorobenzene	93.5	93.5 65 - 135						Reviewed by: EricK	um
TPH-Extractable: EPA 3545A	A / EPA 8015B(M)								
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Motor Oil	ND		1.0	10	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Mineral Spirits (Stodda	rd) ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Kerosene	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
Surrogate	Surrogate Recover	ry	Control 1	Limits (%)				Analyzed by: JHsian	g
n-Hexacosane	73.8		50 -	150				Reviewed by: mtran	
VOCs by GC: EPA 5030B (or	5035A for Encore	Sample	s only)/El	PA 8021B					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/22/2007	SGC070822

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	97.9	65 - 135	Reviewed by: EricKum

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Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

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Samples Received: 08/15/2007 Sample Collected by: Client

I ah # • 56754-008	Sample ID: SR-2-16	Matrix: Solid	Sample Date: 8/9/2007	11.40 AM

Lab #: 56/54-008	Sample ID: SB-2-	16			Γ	Matrix: Solid	Sample I	Date: 8/9/2007	11:40 AM
TPH-Purgeable - GC: EPA	•		Samples of D/P-F	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	C	Control I	Limits (%)			Analyzed by: Jabidog		
4-Bromofluorobenzene	90.3		65 -	135				Reviewed by: EricK	um
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	amples o	only)/EI	PA 8021B					
Parameter	Result (Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	C	Control I	Limits (%)				Analyzed by: Jabido	g

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample	Collected	bv:	Client
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<b>Lab #:</b> 56754-009	Sample ID: SB-2	2-20			I	Matrix: Solid	Sample I	<b>Date:</b> 8/9/2007	11:50 AM
TPH-Purgeable - GC: EPA	5030B (or 5035A for l	Encore	Samples	only) / EPA 8015B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	y	Control l	Limits (%)				Analyzed by: JAbido	og
4-Bromofluorobenzene	87.1		65 -	135				Reviewed by: EricK	um

#### VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	95.6	65 - 135	Reviewed by: EricKum

ND

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Xylenes, Total

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

N/A

8/17/2007

SGC070817

GlobalID: T0600102089

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Samples Received: 08/15/2007

Sample Collected by: Client

1.0

<b>Lab #:</b> 56754-010	Sample ID: SB-2-24	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	12:05 PM

TPH-Purgeable - GC: EPA	5030B (or 5035A for	Encore	Samples	only) / EPA 8015B						
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817	
Surrogate	Surrogate Recover	Surrogate Recovery Control Limits (%)					Analyzed by: JAbidog			
4-Bromofluorobenzene	88.6		65 -	135				Reviewed by: EricKum		
VOCs by GC: EPA 5030B	(or 5035A for Encore	Sample	s only)/El	PA 8021B						
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch	
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817	
Γoluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817	

mg/Kg

N/A

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	91.6	65 - 135	Reviewed by: EricKum

0.010

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Attn: Matt Kaempf

Xylenes, Total

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

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Samples Received: 08/15/2007

Sample Collected by: Client

<b>Lab #:</b> 56754-012	Sample ID: SB-3-8	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	1:10 PM
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TPH-Purgeable - GC: EPA	5030B (or 5035A for Enc	ore Samples	only) / EPA 8015B					
Parameter	Result Qu	al D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: JAbid	log
4-Bromofluorobenzene	85.0	65	- 135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore Sam	ples only)/E	PA 8021B					
Parameter	Result Qu	al D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

mg/Kg

N/A

N/A

8/17/2007

Analyzed by: JAbidog Reviewed by: EricKum

SGC070817

0.010

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.7	65 - 135

1.0

ND

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Attn: Matt Kaempf

**Lab #:** 56754-013

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

**Sample Date:** 8/9/2007

1:15 PM

GlobalID: T0600102089

Matrix: Solid

Certificate of Analysis - Data Report

Sample Received: 08/15/2007 Sample Collected by: Client

	Sample Conected by.	Chem

<b>TPH-Purgeable - GC: EPA</b>	SUSUB (OF SUSSA IOF I	Encore	Samples	omy) / EPA 8015B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
ΓΡΗ as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	7	Control I	Limits (%)				Analyzed by: JAbido	og
4-Bromofluorobenzene	83.4		65 -	135				Reviewed by: EricK	um

#### VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

Sample ID: SB-3-12

Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	89.4	65 - 135	Reviewed by: EricKum

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

Analyzed by: JAbidog Reviewed by: EricKum

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by:	Client
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<b>Lab #:</b> 56754-014 <b>Sample ID: SB-3-16</b>	Matrix: Solid Sample Date: 8/9/200	7 1:30 PM
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<b>Lab</b> II . 30734 014	Bampie ID. BB-3-1	U .		1	viatrix. Don	u bampic i	<b>Jacc.</b> 0/7/2007	1.30 1 111
TPH-Purgeable - GC: EPA Parameter	`	core Samples ual D/P-F	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	85.4	65	- 135				Reviewed by: Erick	Lum
VOCs by GC: EPA 5030B	(or 5035A for Encore San	nples only)/E	PA 8021B					
Parameter	Result Qu	ual D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.9	65 - 135

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

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Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-016 Sample ID: SB-4-8 Matrix: Solid Sample Date: 8/9/2007 2:00 PM

	QC Batch SM3E070905E
1,1,1,2-Tetrachloroethane ND 10 50 μg/Kg N/A N/A 9/5/2007	
	SM3E070905E
1.1.1-Trichloroethane ND 10 50 ug/Kg N/A N/A 9/5/2007	
7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	SM3E070905E
$1,1,2,2\text{-Tetrachloroethane} \qquad \qquad ND \qquad \qquad 10 \qquad \qquad 50 \qquad \qquad \mu\text{g/Kg} \qquad N/A \qquad \qquad N/A \qquad \qquad 9/5/2007$	SM3E070905E
$1,1,2\text{-Trichloroethane} \qquad \qquad ND \qquad \qquad 10 \qquad \qquad 50 \qquad \qquad \mu g/Kg \qquad N/A \qquad \qquad N/A \qquad \qquad 9/5/2007$	SM3E070905E
1,1-Dichloroethane ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
1,1-Dichloroethene ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
1,1-Dichloropropene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2,3-Trichlorobenzene ND 10 50 $\mu$ g/Kg N/A N/A 9/5/2007	SM3E070905E
1,2,3-Trichloropropane ND 10 50 $\mu$ g/Kg N/A N/A 9/5/2007	SM3E070905E
1,2,4-Trichlorobenzene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2,4-Trimethylbenzene ND 10 50 $\mu$ g/Kg N/A N/A 9/5/2007	SM3E070905E
1,2-Dibromo-3-Chloropropane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2-Dibromoethane (EDB) ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2-Dichlorobenzene ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2-Dichloroethane ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,2-Dichloropropane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
1,3,5-Trimethylbenzene ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,3-Dichlorobenzene ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,3-Dichloropropane ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,4-Dichlorobenzene ND 10 50 µg/Kg N/A N/A 9/5/2007	SM3E070905E
1,4-Dioxane ND 10 2000 µg/Kg N/A N/A 9/5/2007	SM3E070905E
2,2-Dichloropropane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
2-Butanone (MEK) ND 10 400 μg/Kg N/A N/A 9/5/2007	SM3E070905E
2-Chloroethyl-vinyl Ether ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
2-Chlorotoluene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
2-Hexanone ND 10 400 μg/Kg N/A N/A 9/5/2007	SM3E070905E
4-Chlorotoluene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
4-Methyl-2-Pentanone(MIBK) ND 10 400 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Acetone ND 10 1000 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Acetonitrile ND 10 400 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Acrolein ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Acrylonitrile ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Benzene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Benzyl Chloride ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Bromobenzene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Bromochloromethane ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
Bromodichloromethane ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
Bromoform ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Bromomethane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Carbon Disulfide ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
Carbon Tetrachloride ND 10 50 $\mu g/Kg$ N/A N/A 9/5/2007	SM3E070905E
Chlorobenzene ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Chloroethane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Chloroform ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E
Chloromethane ND 10 50 μg/Kg N/A N/A 9/5/2007	SM3E070905E

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

 $Qual = Data\ Qualifier$ 

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062 Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

#### Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

<b>Lab #:</b> 56754-016	Sample ID: SB-4-8	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	2:00 PM

VOCs: EPA 5030B (or 5035A fo Parameter	Result Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
							•	
cis-1,2-Dichloroethene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
cis-1,3-Dichloropropene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Cyclohexanone	ND	10	400	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dibromochloromethane	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dibromomethane	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dichlorodifluoromethane	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Diisopropyl Ether	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Ethyl Benzene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Freon 113	ND	10	100	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Hexachlorobutadiene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Iodomethane	ND	10	100	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Isopropanol	ND	10	1000	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Isopropylbenzene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Methyl-t-butyl Ether	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Methylene Chloride	ND	10	500	$\mu g \! / \! Kg$	N/A	N/A	9/5/2007	SM3E070905E
n-Butylbenzene	ND	10	50	$\mu g \! / \! Kg$	N/A	N/A	9/5/2007	SM3E070905E
n-Propylbenzene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Naphthalene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
p-Isopropyltoluene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
Pentachloroethane	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
sec-Butylbenzene	ND	10	50	$\mu g \! / \! Kg$	N/A	N/A	9/5/2007	SM3E070905E
Styrene	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
tert-Amyl Methyl Ether	ND	10	50	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
tert-Butanol (TBA)	ND	10	400	$\mu g/Kg$	N/A	N/A	9/5/2007	SM3E070905E
tert-Butyl Ethyl Ether	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
tert-Butylbenzene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Tetrachloroethene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Tetrahydrofuran	ND	10	400	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Toluene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,2-Dichloroethene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,3-Dichloropropene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,4-Dichloro-2-butene	ND	10	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Trichloroethene	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Trichlorofluoromethane	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Vinyl Acetate	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Vinyl Chloride	ND	10	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Xylenes, Total	ND	10	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E

The reporting limits are raised due to presence of hydrocarbons in the sample.

Surrogate	Surrogate Recovery	Co	ntro	ol Li	imits (%)
4-Bromofluorobenzene	97.5	6	60	-	130
Dibromofluoromethane	102	(	50	-	130
Toluene-d8	101	(	50	-	130

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

#### **Certificate of Analysis - Data Report**

Sample Received: 08/15/2007 Sample Collected by: Client

	2017 515 20	ita IX	роге		S	ample Collec	ted by: Client		
<b>Lab #:</b> 56754-016	Sample ID: SB	3-4-8			I	<b>Matrix:</b> Soli	d Sample I	Date: 8/9/2007	2:00 PM
TPH-Purgeable - GC: EPA	5030B (or 5035A fo	or Encor	e Samples	only) / EPA 8015B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Recov	ery	Control	Limits (%)				Analyzed by: JAbio	dog
4-Bromofluorobenzene	107		65 -	135				Reviewed by: Ericl	Kum
TPH-Purgeable - GC/MS: E	CPA 5030B (or 5035	A for Er	core Sam	ples only) / GC/MS					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	5100		10	1000	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Surrogate	Surrogate Recov	ery	Control	Limits (%)				Analyzed by: MaiC	ChiTu
4-Bromofluorobenzene	101		60 -	130				Reviewed by: TFul	ton
Dibromofluoromethane	99.0		60 -	130					
Toluene-d8	108		60 -	130					
TPH-Extractable: EPA 3545	5A / EPA 8015B(M	)							
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Motor Oil	ND		1.0	10	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Mineral Spirits (Stode	lard) ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Kerosene	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
Surrogate	Surrogate Recov	ery	Control	Limits (%)				Analyzed by: JHsia	ing
n-Hexacosane	73.1		50 -	150				Reviewed by: mtra	n
VOCs by GC: EPA 5030B (	or 5035A for Enco	e Sampl	es only)/El	PA 8021B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817

Control Limits (%)

65 - 135

Surrogate

4-Bromofluorobenzene

**Surrogate Recovery** 

100

Analyzed by: JAbidog

Reviewed by: EricKum

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

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Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56/54-018	Sample ID: SB-5-8	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	3:10 PM

Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
ΓΡΗ as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Recovery	7	Control l	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	86.8		65 -	135				Reviewed by: Erick	lum

#### VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JAbidog
4-Bromofluorobenzene	93.2	65 - 135	Reviewed by: EricKum

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062 Attn: Matt Kaempf

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GlobalID: T0600102089

Project Name: KCE514

#### Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

				3	ample Collecte	ed by: Chent		
<b>Lab #:</b> 56754-019 <b>Sam</b>	nple ID: SB-5-10.5			I	<b>Matrix:</b> Solid	Sample I	<b>Date:</b> 8/9/2007	3:20 PM
VOCs: EPA 5030B (or 5035A for Parameter	Encore Samples only)/ Result Qual	EPA 8260 D/P-F	OB  Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1,1-Trichloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1,2-Trichloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1-Dichloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1-Dichloroethene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,1-Dichloropropene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2,3-Trichlorobenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2,3-Trichloropropane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2,4-Trichlorobenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2,4-Trimethylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2-Dibromo-3-Chloropropane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2-Dibromoethane (EDB)	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2-Dichlorobenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2-Dichloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,2-Dichloropropane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,3,5-Trimethylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,3-Dichlorobenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,3-Dichloropropane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,4-Dichlorobenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,4-Dioxane	ND	1.0	200	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2,2-Dichloropropane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Butanone (MEK)	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Chloroethyl-vinyl Ether	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Chlorotoluene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Hexanone	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
4-Chlorotoluene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
4-Methyl-2-Pentanone(MIBK)	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acetone Acetone	ND	1.0	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acetonitrile	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acrolein	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acrylonitrile	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Benzene	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Benzyl Chloride	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Bromobenzene	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Bromochloromethane	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Bromodichloromethane	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Bromoform	ND	1.0	5.0		N/A	N/A	9/5/2007	SM3E070905E SM3E070905E
Bromomethane	ND ND	1.0	5.0	μg/Kg μg/Kg	N/A N/A	N/A N/A	9/5/2007	SM3E070905E SM3E070905E
Carbon Disulfide	ND ND	1.0	5.0		N/A N/A	N/A N/A	9/5/2007	SM3E070905E SM3E070905E
Carbon Tetrachloride				μg/Kg			9/5/2007	SM3E070905E SM3E070905E
Carbon Tetrachioride Chlorobenzene	ND ND	1.0 1.0	5.0 5.0	μg/Kg	N/A N/A	N/A N/A	9/5/2007	SM3E070905E SM3E070905E
				μg/Kg				
Chloroform	ND ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Chloroform	ND ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Chloromethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

#### **Certificate of Analysis - Data Report**

Samples Received: 08/15/2007 Sample Collected by: Client

<b>Lab #:</b> 56754-019	Sample ID: SB-5-10.5	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	3:20 PM

VOCs: EPA 5030B (or 5035A for	r Encore Samples on	ly)/EPA 826	0B					
Parameter	Result Qu	• /	<b>Detection Limit</b>	Units	<b>Prep Date</b>	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
cis-1,3-Dichloropropene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Cyclohexanone	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dibromochloromethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dibromomethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Dichlorodifluoromethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Diisopropyl Ether	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Ethyl Benzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Freon 113	ND	1.0	10	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Hexachlorobutadiene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Iodomethane	ND	1.0	10	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Isopropanol	ND	1.0	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Isopropylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Methyl-t-butyl Ether	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Methylene Chloride	ND	1.0	50	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
n-Butylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
n-Propylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Naphthalene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
p-Isopropyltoluene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Pentachloroethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
sec-Butylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Styrene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
tert-Amyl Methyl Ether	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
tert-Butanol (TBA)	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
tert-Butyl Ethyl Ether	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
tert-Butylbenzene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Tetrachloroethene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Tetrahydrofuran	ND	1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Toluene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,2-Dichloroethene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,3-Dichloropropene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
trans-1,4-Dichloro-2-butene	ND	1.0	10	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Trichloroethene	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Trichlorofluoromethane	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Vinyl Acetate	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Vinyl Chloride	ND	1.0	5.0	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Xylenes, Total	ND	1.0	10	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E

Surrogate	Surrogate Recovery	Control Limits (%)				
4-Bromofluorobenzene	95.3	60	-	130		
Dibromofluoromethane	104	60	-	130		
Toluene-d8	98.8	60	_	130		

Analyzed by: MaiChiTu

Reviewed by: TFulton

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

#### Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

					3	ample Collecte	ed by: Chent		
<b>Lab #:</b> 56754-019	Sample ID: SB-	5-10.5			I	Matrix: Solid	Sample I	<b>Date:</b> 8/9/2007	3:20 PM
TPH-Purgeable - GC: EPA	5030B (or 5035A for	Encore	Samples	only) / EPA 8015B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Recover	·y	Control l	Limits (%)				Analyzed by: JAbio	log
4-Bromofluorobenzene	88.1		65 -	135				Reviewed by: Ericl	Kum
TPH-Purgeable - GC/MS: E	PA 5030B (or 5035A	for En	core Sam	ples only) / GC/MS					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Surrogate	Surrogate Recover	·y	Control l	Limits (%)				Analyzed by: MaiC	ChiTu
4-Bromofluorobenzene	98.8		60 -	130				Reviewed by: TFul	ton
Dibromofluoromethane	100		60 -	130					
Toluene-d8	106		60 -	130					
TPH-Extractable: EPA 3545	5A / EPA 8015B(M)								
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Motor Oil	ND		1.0	10	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Mineral Spirits (Stodd	lard) ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Kerosene	ND		1.0	5.0	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
Surrogate	Surrogate Recover	·y	Control l	Limits (%)				Analyzed by: JHsia	ing
n-Hexacosane	77.3		50 -	150				Reviewed by: mtra	n
VOCs by GC: EPA 5030B (c	or 5035A for Encore	Sample	es only)/EI	PA 8021B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817

Surrogate

4-Bromofluorobenzene

**Surrogate Recovery** 

Control Limits (%)

Analyzed by: JAbidog

Reviewed by: EricKum

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

**Certificate of Analysis - Data Report** 

Samples Received: 08/15/2007 Sample Collected by: Client

Lab # • 56754-021	Sample ID: SR-6-8	Matrix: Solid	Sample Date: 8/9/2007	3.48 PM

Lab #: 30/34-021	Sample ID: SD-0-8			1	viatrix: 5011	id Sample i	Date: 8/9/2007	5:48 PWI
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enco Result Qu	•	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: JAbid	log
4-Bromofluorobenzene	87.7	65	- 135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B Parameter	(or 5035A for Encore Sam Result Qu	•	PA 8021B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
C	C	C41	T ::4- (0/)				Analyzad by: IAbid	log

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

**Certificate of Analysis - Data Report** 

Samples Received: 08/15/2007

Sample Collected by: Client	
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<b>Lab #:</b> 56754-022	Sample ID: SB-6-12	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	4:00 PM
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245 • 5075 1 022	Sumple 12. S2 0				-	viction Bon	o Sumple 1	<b>54.00</b> 1	1100 1 111
TPH-Purgeable - GC: EPA	`	Encore Oual	Samples D/P-F	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	OC Batch
rarameter	Result	Quai	D/T-F	Detection Limit	Ullus	r rep Date	гтер ваш	Alialysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Recovery	7	Control 1	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	85.7		65 -	135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore S	Sample	s only)/El	PA 8021B					
Parameter	Result	Qual	D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	<b>Analysis Date</b>	QC Batch
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes Total	ND		1.0	0.010	mø/Kø	N/A	N/A	8/18/2007	SGC070817

Surrogate Surrogate Recovery Control Limits (%)
4-Bromofluorobenzene 93.4 65 - 135

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062

Attn: Matt Kaempf

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007 Sample Collected by: Client

<b>Lab #:</b> 56754-023	Sample ID: SB-6-16	Matrix: Solid	<b>Sample Date:</b> 8/9/2007	4:10 PM
<b>1140</b> 11 • 3073 1 023	bumpic ID. DD 0 10	matrix sona	builipie Dute: 0/7/2007	

	Sumple 12. S2 0 10			•	VILLET DOIL	d Sumple 1	<b>54101</b> 0/5/2007	1.101111
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enc Result Qu	•	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate	Surrogate Surrogate Recovery Control Limits (%)  Analyzed by: JAbidog							og
4-Bromofluorobenzene	86.3	65	- 135				Reviewed by: Erick	Lum
VOCs by GC: EPA 5030B	(or 5035A for Encore Sam	ples only)/E	PA 8021B					
Parameter	Result Qu	al D/P-F	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817

SurrogateSurrogate RecoveryControl Limits (%)4-Bromofluorobenzene92.265-135

Analyzed by: JAbidog Reviewed by: EricKum

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Method Blank - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC/Prep Batch ID: SD070830A Validated by: mtran - 08/30/07

QC/Prep Date: 8/30/2007

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	5.0	mg/Kg
TPH as Kerosene	ND	1	5.0	mg/Kg
TPH as Mineral Spirits (Stoddard)	ND	1	5.0	mg/Kg
TPH as Motor Oil	ND	1	10	mg/Kg

Surrogate for Blank % Recovery Control Limits n-Hexacosane 82.4 50 - 150

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070817 Validated by: EricKum - 08/21/07

QC Batch Analysis Date: 8/20/2007

ParameterResultDFPQLRUnitsTPH as GasolineND10.50mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 89.6 65 - 135

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817 Validated by: EricKum - 08/21/07

QC Batch Analysis Date: 8/20/2007

DF **Parameter** Result **PQLR** Units ND 1 0.010 mg/Kg Benzene Ethyl Benzene ND 1 0.010 mg/Kg Toluene ND 0.010 mg/Kg 1 Xylenes, Total ND 0.010 mg/Kg

Surrogate for Blank% RecoveryControl Limits4-Bromofluorobenzene10165- 135

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070822 Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/22/2007

ParameterResultDFPQLRUnitsTPH as GasolineND10.50mg/Kg

Surrogate for Blank % Recovery Control Limits
4-Bromofluorobenzene 92.9 65 - 135

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070822 Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/22/2007

DF **Parameter** Result **PQLR** Units ND 1 0.010 mg/Kg Benzene Ethyl Benzene ND 1 0.010 mg/Kg Toluene ND 0.010 mg/Kg 1 Xylenes, Total ND 0.010 mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 99.8 65 - 135

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGCA070820A Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/20/2007

 Parameter
 Result
 DF
 PQLR
 Units

 TPH as Gasoline
 ND
 10
 5.0
 mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 97.5 65 - 135

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGCA070820A Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/20/2007

**Parameter** Result DF **PQLR** Units ND 10 0.10 mg/Kg Benzene Ethyl Benzene ND 10 0.10 mg/Kg Toluene ND 10 0.10 mg/Kg Xylenes, Total ND 10 0.10 mg/Kg

Surrogate for Blank% RecoveryControl Limits4-Bromofluorobenzene10565- 135

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E070905E Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	5.0	μg/Kg
1,1,1-Trichloroethane	ND	1	5.0	μg/Kg
1,1,2,2-Tetrachloroethane	ND	1	5.0	μg/Kg
1,1,2-Trichloroethane	ND	1	5.0	μg/Kg
1,1-Dichloroethane	ND	1	5.0	μg/Kg
1,1-Dichloroethene	ND	1	5.0	μg/Kg
1,1-Dichloropropene	ND	1	5.0	μg/Kg
1,2,3-Trichlorobenzene	ND	1	5.0	μg/Kg
1,2,3-Trichloropropane	ND	1	5.0	μg/Kg
1,2,4-Trichlorobenzene	ND	1	5.0	μg/Kg
1,2,4-Trimethylbenzene	ND	1	5.0	μg/Kg
1,2-Dibromo-3-Chloropropane	ND	1	5.0	μg/Kg
1,2-Dibromoethane (EDB)	ND	1	5.0	μg/Kg
1,2-Dichlorobenzene	ND	1	5.0	μg/Kg
1,2-Dichloroethane	ND	1	5.0	μg/Kg
1,2-Dichloropropane	ND	1	5.0	μg/Kg
1,3,5-Trimethylbenzene	ND	1	5.0	μg/Kg
1,3-Dichlorobenzene	ND	1	5.0	μg/Kg
1,3-Dichloropropane	ND	1	5.0	μg/Kg
1,4-Dichlorobenzene	ND	1	5.0	μg/Kg
1,4-Dioxane	ND	1	200	μg/Kg
2,2-Dichloropropane	ND	1	5.0	μg/Kg
2-Butanone (MEK)	ND	1	40	μg/Kg
2-Chloroethyl-vinyl Ether	ND	1	5.0	μg/Kg
2-Chlorotoluene	ND	1	5.0	μg/Kg
2-Hexanone	ND	1	40	μg/Kg
4-Chlorotoluene	ND	1	5.0	μg/Kg
4-Methyl-2-Pentanone(MIBK)	ND	1	40	μg/Kg
Acetone	ND	1	100	μg/Kg
Acetonitrile	ND	1	40	μg/Kg
Acrolein	ND	1	5.0	μg/Kg
Acrylonitrile	ND	1	5.0	μg/Kg
Benzene	ND	1	5.0	μg/Kg
Benzyl Chloride	ND	1	5.0	μg/Kg
Bromobenzene	ND	1	5.0	μg/Kg
Bromochloromethane	ND	1	5.0	μg/Kg
Bromodichloromethane	ND	1	5.0	μg/Kg
Bromoform	ND	1	5.0	μg/Kg
Bromomethane	ND	1	5.0	μg/Kg
Carbon Disulfide	ND	1	5.0	μg/Kg
Carbon Tetrachloride	ND	1	5.0	μg/Kg
Chlorobenzene	ND	1	5.0	μg/Kg
Chloroethane	ND	1	5.0	μg/Kg
Chloroform	ND	1	5.0	μg/Kg
Chloromethane	ND	1	5.0	μg/Kg
cis-1,2-Dichloroethene	ND	1	5.0	μg/Kg
cis-1,3-Dichloropropene	ND	1	5.0	μg/Kg
Cyclohexanone	ND	1	40	μg/Kg
Dibromochloromethane	ND	1	5.0	μg/Kg
Dibromomethane	ND	1	5.0	μg/Kg
Dichlorodifluoromethane	ND	1	5.0	μg/Kg

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E070905E Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

Parameter	Result	DF	PQLR	Units
Diisopropyl Ether	ND	1	5.0	μg/Kg
Ethyl Benzene	ND	1	5.0	μg/Kg
Freon 113	ND	1	10	μg/Kg
Hexachlorobutadiene	ND	1	5.0	μg/Kg
Iodomethane	ND	1	10	μg/Kg
Isopropanol	ND	1	100	μg/Kg
Isopropylbenzene	ND	1	5.0	μg/Kg
Methylene Chloride	ND	1	50	μg/Kg
Methyl-t-butyl Ether	ND	1	5.0	μg/Kg
Naphthalene	ND	1	5.0	μg/Kg
n-Butylbenzene	ND	1	5.0	μg/Kg
n-Propylbenzene	ND	1	5.0	μg/Kg
Pentachloroethane	ND	1	5.0	μg/Kg
p-Isopropyltoluene	ND	1	5.0	μg/Kg
sec-Butylbenzene	ND	1	5.0	μg/Kg
Styrene	ND	1	5.0	μg/Kg
tert-Amyl Methyl Ether	ND	1	5.0	μg/Kg
tert-Butanol (TBA)	ND	1	40	μg/Kg
tert-Butyl Ethyl Ether	ND	1	5.0	μg/Kg
tert-Butylbenzene	ND	1	5.0	μg/Kg
Tetrachloroethene	ND	1	5.0	μg/Kg
Tetrahydrofuran	ND	1	40	μg/Kg
Toluene	ND	1	5.0	μg/Kg
trans-1,2-Dichloroethene	ND	1	5.0	μg/Kg
trans-1,3-Dichloropropene	ND	1	5.0	μg/Kg
trans-1,4-Dichloro-2-butene	ND	1	10	μg/Kg
Trichloroethene	ND	1	5.0	μg/Kg
Trichlorofluoromethane	ND	1	5.0	μg/Kg
Vinyl Acetate	ND	1	5.0	μg/Kg
Vinyl Chloride	ND	1	5.0	μg/Kg
Xylenes, Total	ND	1	10	μg/Kg
Surrogate for Blank % Recovery Control Lin	nits			

Surrogate for Blank	% Recovery	Control Lim				
4-Bromofluorobenzene	95.2	60	-	130		
Dibromofluoromethane	102	60	-	130		
Toluene-d8	98.8	60	_	130		

Method Blank - Solid - TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

QC Batch ID: SM3E070905E Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

Parameter			Result	DF	PQLR	Units
TPH as Gasoline			ND	1	100	μg/Kg
Surrogate for Blank	% Recovery	Control Lim	its			
4-Bromofluorobenzene	98.6	60 - 130	)			
Dibromofluoromethane	98.4	60 - 130	)			
Toluene-d8	105	60 - 130	)			

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LCS / LCSD - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC Batch ID: SD070830A Reviewed by: mtran - 08/30/07

QC/Prep Date: 8/30/2007

**LCS** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<5.0	100	92.0	mg/Kg	92.0	45 - 140
TPH as Motor Oil	<20	100	78.5	mg/Kg	78.5	45 - 140

Surrogate% RecoveryControl Limitsn-Hexacosane81.650 - 150

**LCSD** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits	
TPH as Diesel	<5.0	100	99.9	mg/Kg	99.9	8.3	30.0	45 - 140	
TPH as Motor Oil	<20	100	84.6	mg/Kg	84.6	7.6	30.0	45 - 140	

Surrogate % Recovery Control Limits n-Hexacosane 83.9 50 - 150

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LCS / LCSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070817 Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

**LCS** 

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRecovery LimitsTPH as Gasoline<0.50</td>2.52.45mg/Kg98.065 - 135

Surrogate% RecoveryControl Limits4-Bromofluorobenzene108.065 - 135

**LCSD** 

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRPDRPD LimitsRecovery LimitsTPH as Gasoline<0.50</td>2.52.48mg/Kg99.21.230.065 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 121.0 65 - 135

LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817 Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

**LCS** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	< 0.010	0.080	0.0720	mg/Kg	90.0	65 - 135
Ethyl Benzene	< 0.010	0.080	0.0720	mg/Kg	90.0	65 - 135
Methyl-t-butyl Ether	< 0.050	0.080	0.0770	mg/Kg	96.2	65 - 135
Toluene	< 0.010	0.080	0.0710	mg/Kg	88.7	65 - 135
Xylenes, total	<0.010	0.24	0.218	mg/Kg	90.8	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 95.9 65 - 135

**LCSD** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	<b>RPD Limits</b>	<b>Recovery Limits</b>
Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	8.0	25.0	65 - 135
Ethyl Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	8.0	25.0	65 - 135
Methyl-t-butyl Ether	< 0.050	0.080	0.0800	mg/Kg	100	3.8	25.0	65 - 135
Toluene	<0.010	0.080	0.0770	mg/Kg	96.2	8.1	25.0	65 - 135
Xylenes, total	<0.010	0.24	0.233	mg/Kg	97.1	6.7	25.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 102.0 65 - 135

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LCS / LCSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070822 Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/22/2007

**LCS** 

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRecovery LimitsTPH as Gasoline<0.50</td>2.52.43mg/Kg97.265 - 135

Surrogate% RecoveryControl Limits4-Bromofluorobenzene117.065 - 135

**LCSD** 

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRPDRPD LimitsRecovery LimitsTPH as Gasoline<0.50</td>2.52.49mg/Kg99.62.430.065 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 111.0 65 - 135

LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070822 Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/22/2007

**LCS** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	65 - 135
Ethyl Benzene	< 0.010	0.080	0.0770	mg/Kg	96.2	65 - 135
Methyl-t-butyl Ether	< 0.050	0.080	0.0710	mg/Kg	88.7	65 - 135
Toluene	<0.010	0.080	0.0770	mg/Kg	96.2	65 - 135
Xylenes, total	<0.010	0.24	0.233	mg/Kg	97.1	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 101.0 65 - 135

**LCSD** 

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	0.0	25.0	65 - 135
Ethyl Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	1.3	25.0	65 - 135
Methyl-t-butyl Ether	< 0.050	0.080	0.0760	mg/Kg	95.0	6.8	25.0	65 - 135
Toluene	<0.010	0.080	0.0800	mg/Kg	100	3.8	25.0	65 - 135
Xylenes, total	<0.010	0.24	0.236	mg/Kg	98.3	1.3	25.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 101.0 65 - 135

65 - 135

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LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGCA070820A Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/20/2007

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	< 0.010	0.40	0.301	mg/Kg	75.2	65 - 135
Ethyl Benzene	< 0.010	0.40	0.344	mg/Kg	86.0	65 - 135
Methyl-t-butyl Ether	< 0.050	0.40	0.332	mg/Kg	83.0	65 - 135
Toluene	< 0.010	0.40	0.307	mg/Kg	76.8	65 - 135
Xylenes, total	<0.010	1.2	1.06	mg/Kg	88.3	65 - 135
Surrogate	% Recovery Co	ontrol Limits				

LCSD

4-Bromofluorobenzene

LUJD									
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits	
Benzene	<0.010	0.40	0.288	mg/Kg	72.0	4.4	25.0	65 - 135	
Ethyl Benzene	<0.010	0.40	0.323	mg/Kg	80.8	6.3	25.0	65 - 135	
Methyl-t-butyl Ether	< 0.050	0.40	0.312	mg/Kg	78.0	6.2	25.0	65 - 135	
Toluene	<0.010	0.40	0.286	mg/Kg	71.5	7.1	25.0	65 - 135	
Xylenes, total	<0.010	1.2	0.968	mg/Kg	80.7	9.1	25.0	65 - 135	

Surrogate	% Recovery	<b>Control Limits</b>			
4-Bromofluorobenzene	94.6	65	-	135	

98.4

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LCS / LCSD - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Reviewed by: TFulton - 09/05/07 QC Batch ID: SM3E070905E

QC Batch ID Analysis Date: 9/5/2007

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<5.0	40	44.4	μg/Kg	111	65 - 135
Benzene	<5.0	40	43.4	μg/Kg	108	65 - 135
Chlorobenzene	<5.0	40	43.1	μg/Kg	108	65 - 135
Methyl-t-butyl Ether	<5.0	40	45.1	μg/Kg	113	65 - 135
Toluene	<5.0	40	42.0	μg/Kg	105	65 - 135
Trichloroethene	<5.0	40	42.4	μg/Kg	106	65 - 135
Surrogate	% Recovery Co	ntrol Limits				
4-Bromofluorobenzene	<b>97.3</b> 6	0 - 130				
Dibromofluoromethane	<b>104.0</b> 6	0 - 130				
Toluene-d8	<b>98.5</b> 6	0 - 130				

#### **LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	<b>Recovery Limits</b>
1,1-Dichloroethene	<5.0	40	36.9	μg/Kg	92.2	18	30.0	65 - 135
Benzene	<5.0	40	41.1	μg/Kg	103	5.4	30.0	65 - 135
Chlorobenzene	<5.0	40	39.6	μg/Kg	99.0	8.5	30.0	65 - 135
Methyl-t-butyl Ether	<5.0	40	38.6	μg/Kg	96.5	16	30.0	65 - 135
Toluene	<5.0	40	40.2	μg/Kg	100	4.4	30.0	65 - 135
Trichloroethene	<5.0	40	40.3	μg/Kg	101	5.1	30.0	65 - 135

Surrogate	% Recovery	Cont	rol	Limits
4-Bromofluorobenzene	93.3	60	-	130
Dibromofluoromethane	95.4	60	-	130
Toluene-d8	102.0	60	-	130

QC Batch ID Analysis Date: 9/5/2007

LCS / LCSD - Solid - TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS Reviewed by: TFulton - 09/05/07

QC Batch ID: SM3E070905E

LCS

Parameter	Method BI	lank Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<100	250	267	μg/kg	107	65 - 135
Surrogate	% Recovery	<b>Control Limits</b>				
4-Bromofluorobenzene	100.0	60 - 130				
Dibromofluoromethane	104.0	60 - 130				
Toluene-d8	106.0	60 - 130				

#### **LCSD**

Parameter	Method Bl	ank Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<100	250	279	μg/kg	112	4.4	30.0	65 - 135
Surrogate	% Recovery	<b>Control Limits</b>						
4-Bromofluorobenzene	95.7	60 - 130						
Dibromofluoromethane	93.6	60 - 130						
Toluene-d8 <b>109.0</b> 60		60 - 130						

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MS / MSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817 Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007 MS Sample Spiked: 56754-006

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	0.080	0.0730	mg/Kg	8/20/2007	91.2	65 - 135
Ethyl Benzene	ND	0.080	0.0720	mg/Kg	8/20/2007	90.0	65 - 135
Toluene	ND	0.080	0.0720	mg/Kg	8/20/2007	90.0	65 - 135
Xylenes, total	ND	0.24	0.216	mg/Kg	8/20/2007	90.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 94.3 65 - 135

MSD Sample Spiked: 56754-006

	Sample	Spike	Spike		<b>Analysis</b>				Recovery
Parameter	Result	Amount	Result	Units	Date	% Recovery	RPD	<b>RPD Limits</b>	Limits
Benzene	ND	0.080	0.0750	mg/Kg	8/20/2007	93.8	2.7	25.0	65 - 135
Ethyl Benzene	ND	0.080	0.0740	mg/Kg	8/20/2007	92.5	2.7	25.0	65 - 135
Toluene	ND	0.080	0.0730	mg/Kg	8/20/2007	91.2	1.4	25.0	65 - 135
Xylenes, total	ND	0.24	0.244	mg/Kg	8/20/2007	102	12	25.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 97.7 65 - 135 From: <u>Simon Hague</u>

To: <a href="mailto:dtheesen@entechlabs.com">dtheesen@entechlabs.com</a>;

CC:

**Subject:** Additional analysis for WO 56754

**Date:** Tuesday, August 28, 2007 1:54:45 PM

**Attachments:** 

Hi. I just heard from Matt K @ RRM. He wants to do the following additional analyses on this work order on 5-day TAT. He is aware the samples are out of hold time:

56754-007-TPH-E 56754-016-TPH-E and 8260 56754-019-TPH-E and 8260

Thanks,

Si

# Entech Analytical Labs, Inc. 3334 Victor Court (408) 588-0200

# Chain of Custody / Analysis Request

Santa Clara, CA 950	)54 (408	) <b>5</b> 88 <b>-020</b> 1 -	Fax																			
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3334 Victor Court Santa Clara, CA 95054 (408) 588-0200 (408) 588-0201 - Fax

# Chain of Custody / Analysis Request

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