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May 30, 2008

Steven Plunkett Alameda Country Health Care Services ("County") 1131 Harbor Bay Parkway, Suite 250 Alameda County, CA 94502-6577

> LUFT Site: 900 Central Ave. Alameda (Site)

Re: Report Submittal

Dear Mr. Plunkett:

On behalf of the parties contributing to the 900 Central Avenue Corrective Action Account, please find enclosed herewith a copy of the following technical reports prepared by RRM, Inc.. Santa Cruz, CA (RRM):

- Fourth Quarter 2007 Groundwater-Monitoring Results, February 6, 2008 (just received in my office):
- First Quarter 2008 Groundwater-Monitoring Results, May12, 2008 (just received in my office).

On behalf of the parties participating in site-remediation efforts. I declare under penalty of perjury that the information contained in the enclosed documents is true and correct to the best of my knowledge.

The reports cover the groundwater-monitoring events RRM conducted on November 28, 2007 and February 28, 2008 during which they sounded, purged and sampled six monitoring wells and one recovery well. The groundwater-monitoring work was conducted pursuant to the directives set forth in County correspondence dated July 12, 2006 and January 9, 2007.

On the basis of the collective investigation findings, RRM has concluded that the extent of soil and groundwater contamination has been adequately defined. According to RRM, there is a 10 foot thick by 20 foot wide by 50 foot long zone of heavily impacted saturated soils (370 bank cubic yards) between 8 to 18 feet from grade extending southwest from the former tank area through the area of well MW-1. RRM has further concluded that the levels of gasoline contamination in this heavily impacted zone represent a secondary source area that will require active remediation by one of several approaches including remedial excavation or sparging-enhanced dual-phase extraction. Accordingly, RRM is recommending the conduct of appropriate feasibility studies to determine the optimal approach followed by the preparation of a formal corrective action plan. Specially, they are recommending the installation of an air-sparging well midway between wells RW-1 and MW-1 and the conduct of a one-day dualextraction pilot test using a self-contained mobile unit. They are also recommending mapping all underground utilities that would potentially interfere with or complicate a remedial-excavation approach. If the County concurs with these recommendations, RRM will promptly prepare a concise feasibility study workplan. RRM is recommending that the dual extraction pilot test be conducted during low water table conditions either in the third quarter 2008.

We apologize for not submitting the fourth quarter report in a timely manner. RRM reportedly "misplaced" the report after preparing it in early February 2008. Since this is the second time in a year

RECEIVED

1:36 pm, Jun 05, 2008

Alameda County Environmental Health RRM has declined to furnish a quarterly report in a timely manner, by copy of this letter we are advising RRM that we are considering terminating their contract and replacing them with another contractor.

We are in the process of making all the associated Geotracker uploads that are due in connection with these reports and previous reports.

Thank you for your ongoing courtesy and cooperation.

Sincerely:

Brian T. Kelleher

Court consultant/project coordinator

Cc with enclosure: William Nagle, Esq., Special Master Mediator: Robert Bucciere, Esq., and Kim O'Dincel. Esq., Long & Levit counsel for Pearce Parties; Lisa Pan, Esq., counsel for Thompson Parties; Joe Ryan, Esq., Ryan & Lifter, counsel for Thompson Parties; Laurie Sherwood, Esq., Walsworth & Franklin et al counsel for Peterson Parties; Edward Martins, Esq., counsel for Ann Marie Holland and Estate of John Holland Sr.; Hal Reiland, counsel for Barbara Holland; Jack Holland Jr., c/o Mulholland Bros; cc cover letter only. Matt Kaempf, RRM



February 6, 2008 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: Fourth Quarter 2007 Groundwater Monitoring Results

900 Central Avenue Alameda, California

Dear Mr. Kelleher:

This letter, prepared by RRM, Inc. (RRM), presents the results of the fourth quarter 2007 groundwater monitoring event conducted on November 28, 2007 at the referenced site (Figure 1). Well specifications are presented in Table 1. Groundwater elevation and analytical data are presented in Table 2. A site map is presented as Figure 2. A groundwater elevation contour map is presented as Figure 3. A groundwater concentration map for gasoline range total petroleum hydrocarbons (TPHg), benzene, and methyl tertiary butyl ether (MtBE) is presented as Figure 4. Field and analytical procedures are presented as Attachment A. Certified analytical reports, chain-of-custody, and field data sheets are presented as Attachment B.

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).

RESULTS

Fourth Quarter 2007 Groundwater Sampling Event

On November 28, 2007 RRM performed fourth quarter groundwater sampling activities at wells MW-1 through MW-6 and RW-1. TPHg was detected only in wells MW-1 and RW-1 at concentrations of 51,700 ppb and 24,400 ppb, respectively. Benzene was present in wells MW-1 and RW-1 at concentrations of 3,160 ppb and 4.75 ppb, respectively. Fuel oxygenates, including MtBE, were not detected in any of the samples. Depth to groundwater ranged from 14.94 feet to 15.64 feet bgs with a groundwater flow direction toward the west at an approximate gradient of 0.009 foot/foot.

A groundwater elevation contour map for the November 28, 2007 monitoring event is shown on Figure 3. Groundwater analytical data is summarized in Table 2 and shown on Figure 4. Certified analytical reports and chain-of-custody documentation are presented in Attachment B.

CONCLUSIONS

- 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 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.

RECOMMENDATIONS

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 - Well Specifications

Table 2 - Groundwater Elevation and Analytical Data

Figure 1 – Site Location Map

Figure 2 - Site Map

Figure 3 – Groundwater Elevation Contour, November 28, 2007

Figure 4 – TPHg/Benzene Groundwater Concentration, November 28, 2007

Attachment A - Field and Analytical Procedures

Attachment B - Certified Analytical Reports, Chain-of-Custody, and Field Data Sheets.

Table 1 Well Specifications

900 Central Avenue Alameda, California

Well	Total Depth (feet, bgs)	Casing Diameter (inch)	Screened Interval (feet, bgs)	Screen Length (feet)
MW-1	18	2	6 - 18	12
MW-2	19.5	2	6 - 19.5	13.5
MW-3	18	2	6 - 18	12
MW-4	18	2	6 - 18	12
MW-5	18	2	6 - 18	12
MW-6	18	2	6 - 18	12
RW-1	20	4	5 - 20	15

Notes:

bgs = below ground surface

Table 2 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
	11/28/07		12.94	15.33	51,700 ³	3,160	3,270	1,050	9,250	<11.0	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	<1.50	<0.5	NA	NA	1,2
	05/04/07		9.43	15.74	<50	< 0.500	< 0.500	< 0.500	<1.50	NA	NA	NA	1
	08/23/07	28.31	11.94	16.37	<50	< 0.500	< 0.500	< 0.500	<1.50	< 0.500	NA	NA	1
	11/28/07		12.67	15.64	<50	<0.500	<0.500	<0.500	<1.50	<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	<1.50	<0.5	NA	NA	1
	05/04/07		9.19	15.98	<50	<0.500	< 0.500	< 0.500	<1.50	NA	NA	NA	1
	08/23/07	27.69	11.63	16.06	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.31	15.38	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
MW-4	08/23/07	27.37	11.73	15.64	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.43	14.94	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1

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Table 2 Groundwater Elevation and Analytical Data

900 Central Avenue Alameda, California

Sample	Date Gauged	Well Elevation	Depth to Water	Groundwater Elevation	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MtBE	TPHd	TPHmo	
ID	& Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	Notes
MW-5	08/23/07	27.25	11.56	15.69	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.29	14.96	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
MW-6	08/23/07	27.24	11.52	15.72	<50	< 0.500	< 0.500	< 0.500	<1.50	< 0.500	NA	NA	1
	11/28/07		12.24	15.00	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
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
	11/28/07		11.97	15.46	24,400 ³	4.75	110	915	3,980	<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

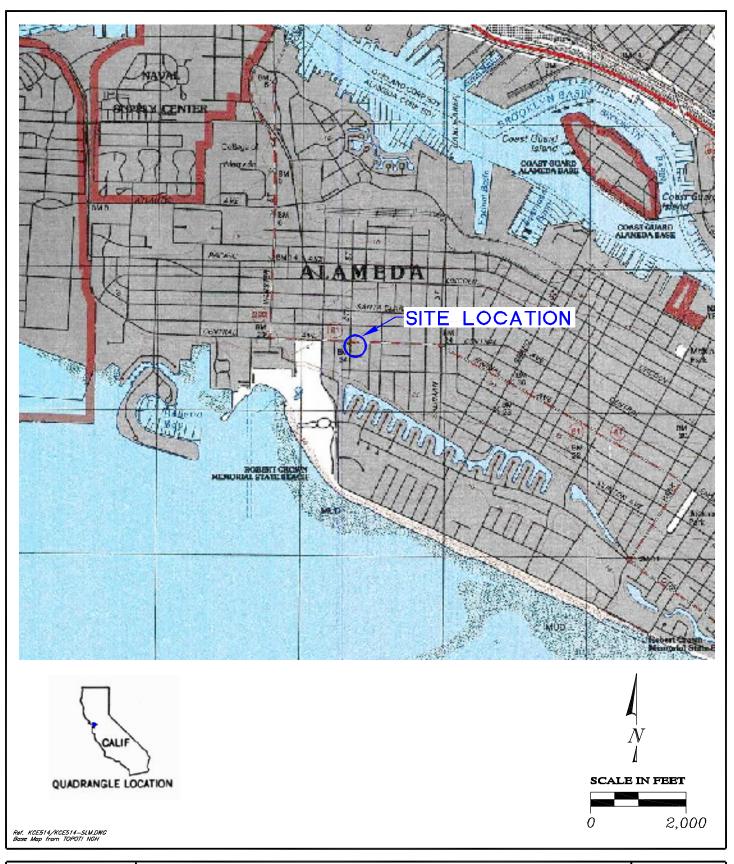
NS = not sampled

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



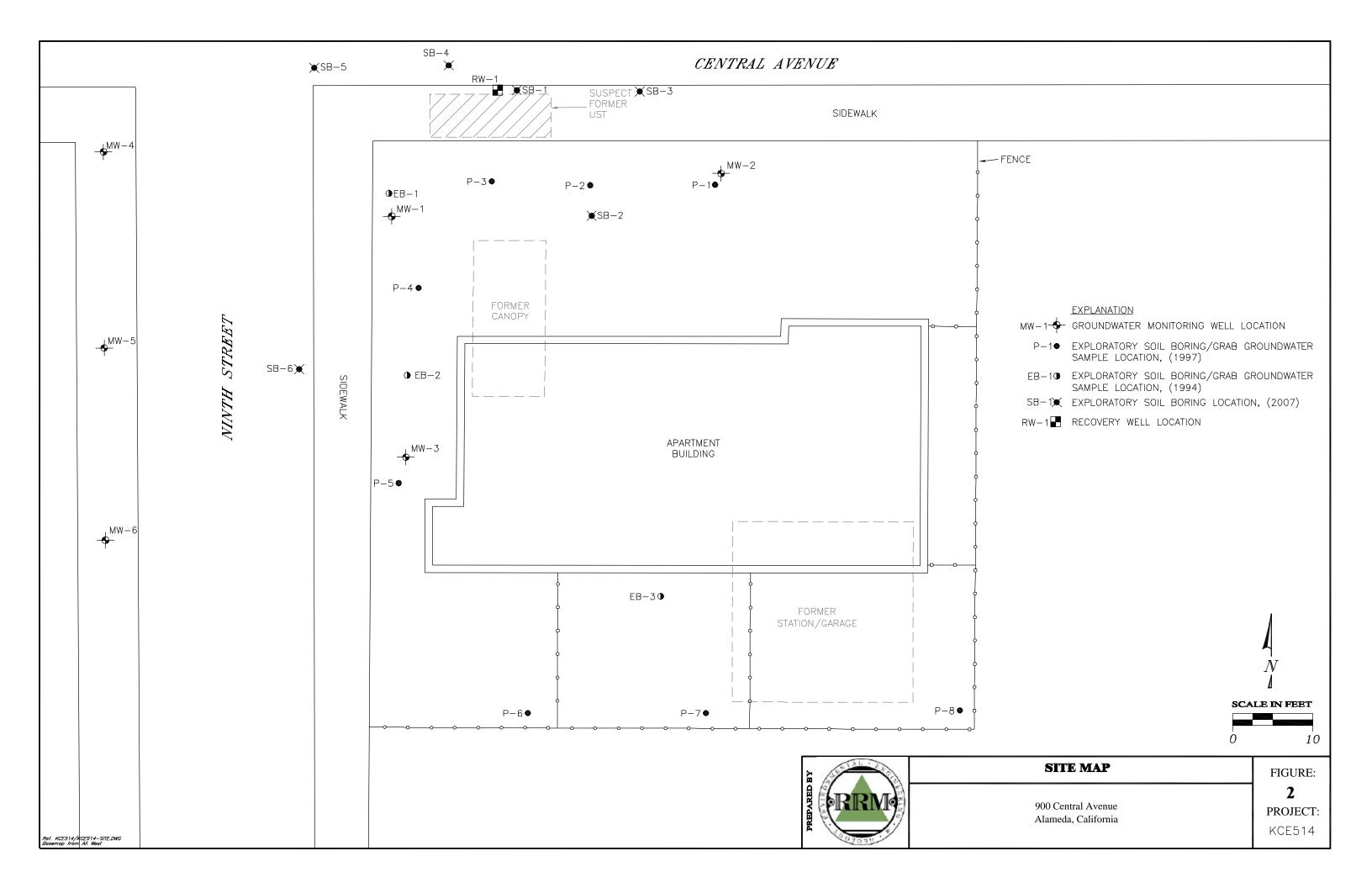


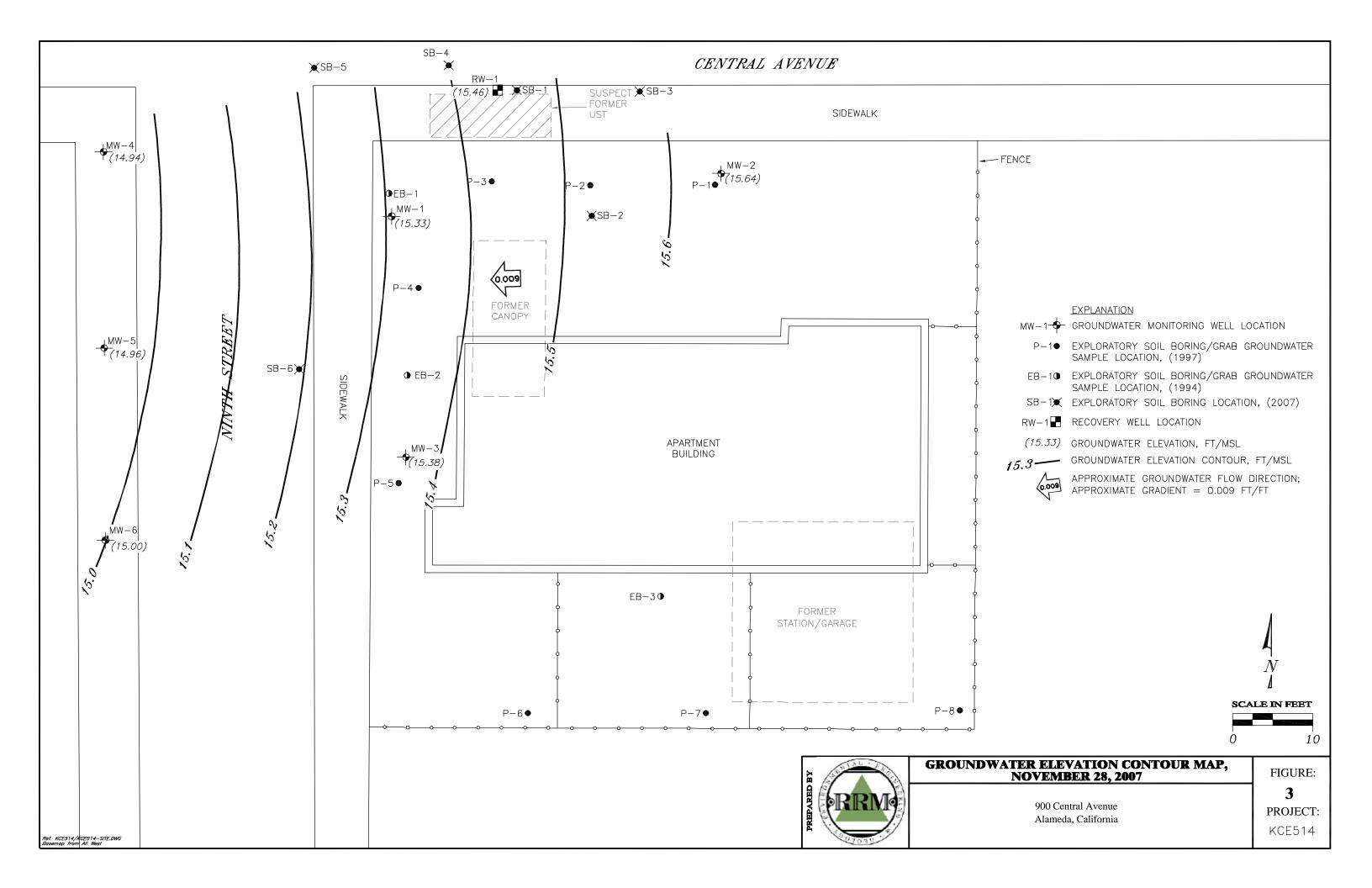
SITE LOCATION MAP

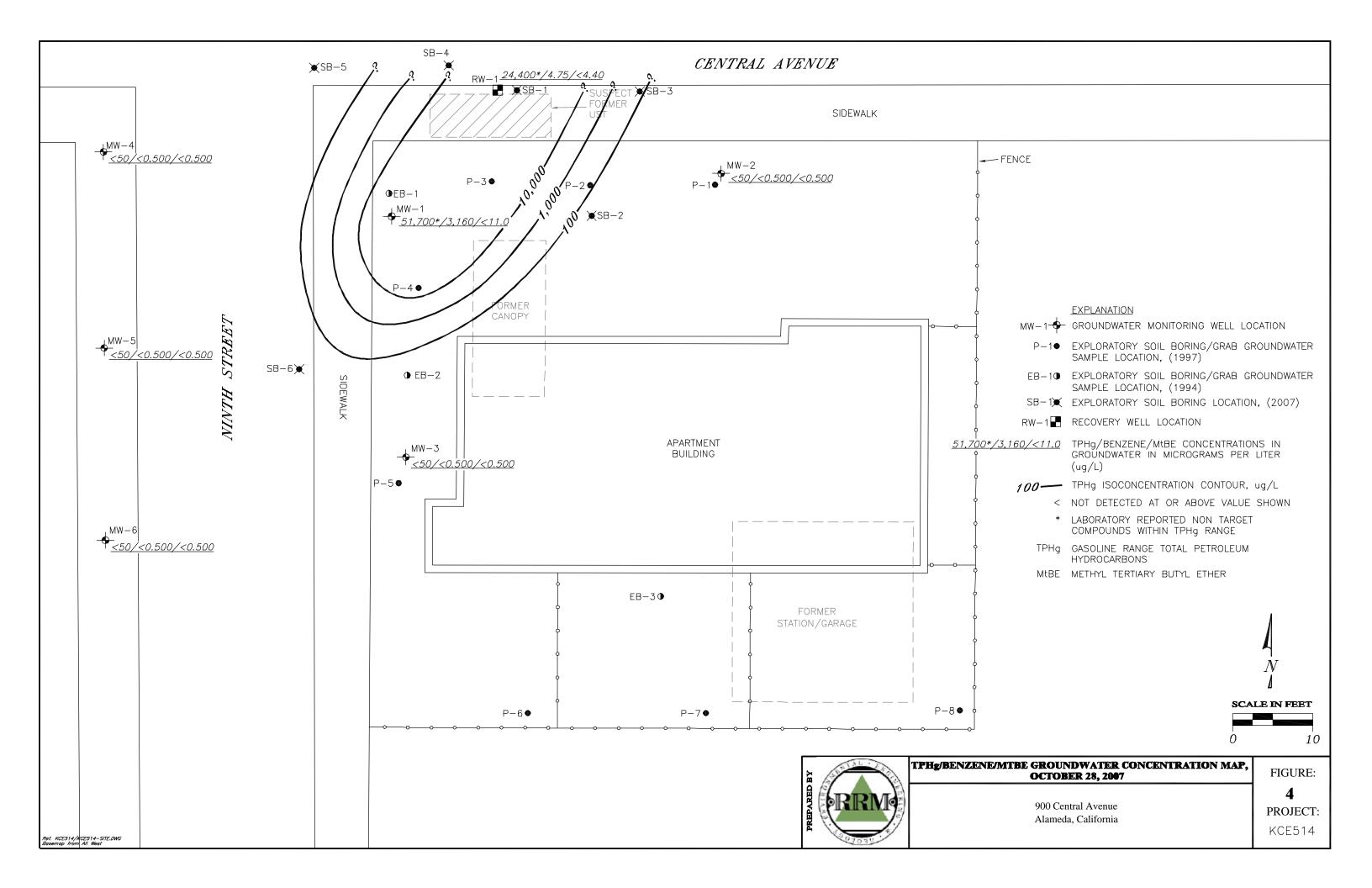
900Central Avenue Alameda, California FIGURE:

PROJECT:

KCE514









FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

Groundwater Sampling

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.

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

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY, AND FIELD DATA SHEETS



December 05, 2007

Matt Kaempf Remediation Risk Management, Inc. 2560 Soquel Ave, Suite 202 Santa Cruz, CA 95062

TEL: (831) 475-8141 FAX (831)475-8249

RE: GWS

Dear Matt Kaempf:

Order No.: 0711133

Torrent Laboratory, Inc. received 7 samples on 11/28/2007 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Patti Sandrock

Laboratory Director

OA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Date Received: 11/28/2007

Lab Sample ID: 0711133-001

Date Prepared: 12/3/2007-12/4/2007

Report prepared for: Matt Kaempf

Remediation Risk Management, Inc. **Date Reported:** 12/5/2007

Client Sample ID: MW-1

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER

Date/Time Sampled 11/28/2007 9:25:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/4/2007	0.5	44	22.0	3160	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	22	11.0	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	22	11.0	1050	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	22	11.0	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	22	11.0	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	22	220	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	22	11.0	ND	μg/L	R14714
Toluene	SW8260B	12/4/2007	0.5	44	22.0	3270	μg/L	R14714
Xylenes, Total	SW8260B	12/4/2007	1.5	44	66.0	9250	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/4/2007	0	44	61.2-131	122	%REC	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	22	61.2-131	92.1	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/4/2007	0	44	64.1-120	95.2	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	22	64.1-120	110	%REC	R14714
Surr: Toluene-d8	SW8260B	12/4/2007	0	44	75.1-127	110	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	22	75.1-127	119	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/4/2007	50	44	2200	51700x	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/4/2007	0	44	58.4-133	109	%REC	G14714

Note: x-Although TPH as Gasoline is present, result is elevated due to presence of non-target compounds (heavy end) within the TPH as Gasoline quantitative range.

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: MW-2

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 8:50:00 AM

Lab Sample ID: 0711133-002 **Date Prepared:** 12/3/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	1	10.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Toluene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Xylenes, Total	SW8260B	12/3/2007	1.5	1	1.50	ND	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	1	61.2-131	115	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	1	64.1-120	95.1	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	1	75.1-127	88.6	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/3/2007	50	1	50	ND	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/3/2007	0	1	58.4-133	99.1	%REC	G14714

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: MW-3

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 8:35:00 AM

Lab Sample ID: 0711133-003 **Date Prepared:** 12/3/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	1	10.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Toluene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Xylenes, Total	SW8260B	12/3/2007	1.5	1	1.50	ND	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	1	61.2-131	118	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	1	64.1-120	98.0	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	1	75.1-127	104	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/3/2007	50	1	50	ND	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/3/2007	0	1	58.4-133	82.8	%REC	G14714

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: MW-4

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 9:40:00 AM

Lab Sample ID: 0711133-004 **Date Prepared:** 12/3/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	1	10.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Toluene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Xylenes, Total	SW8260B	12/3/2007	1.5	1	1.50	ND	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	1	61.2-131	121	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	1	64.1-120	100	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	1	75.1-127	118	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/3/2007	50	1	50	ND	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/3/2007	0	1	58.4-133	105	%REC	G14714

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: MW-5

Sample Location:

900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 9:55:00 AM

Lab Sample ID: 0711133-005 **Date Prepared:** 12/3/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	1	10.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Toluene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Xylenes, Total	SW8260B	12/3/2007	1.5	1	1.50	ND	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	1	61.2-131	127	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	1	64.1-120	109	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	1	75.1-127	117	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/3/2007	50	1	50	ND	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/3/2007	0	1	58.4-133	90.5	%REC	G14714

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: MW-6

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 10:15:00 AM

Lab Sample ID: 0711133-006 **Date Prepared:** 12/3/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/3/2007	10	1	10.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Toluene	SW8260B	12/3/2007	0.5	1	0.500	ND	μg/L	R14714
Xylenes, Total	SW8260B	12/3/2007	1.5	1	1.50	ND	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/3/2007	0	1	61.2-131	125	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/3/2007	0	1	64.1-120	81.0	%REC	R14714
Surr: Toluene-d8	SW8260B	12/3/2007	0	1	75.1-127	112	%REC	R14714
TPH (Gasoline)	SW8260B(TPH)	12/3/2007	50	1	50	ND	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/3/2007	0	1	58.4-133	88.8	%REC	G14714

Remediation Risk Management, Inc.

Date Received: 11/28/2007

Date Reported: 12/5/2007

Client Sample ID: RW-1

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 11/28/2007 9:10:00 AM

Lab Sample ID: 0711133-007 **Date Prepared:** 12/4/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/4/2007	0.5	8.8	4.40	4.75	μg/L	R14714
Ethyl tert-butyl ether (ETBE)	SW8260B	12/4/2007	0.5	8.8	4.40	ND	μg/L	R14714
Ethylbenzene	SW8260B	12/4/2007	0.5	22	11.0	915	μg/L	R14714
Isopropyl ether (DIPE)	SW8260B	12/4/2007	0.5	8.8	4.40	ND	μg/L	R14714
Methyl tert-butyl ether (MTBE)	SW8260B	12/4/2007	0.5	8.8	4.40	ND	μg/L	R14714
t-Butyl alcohol (t-Butanol)	SW8260B	12/4/2007	10	8.8	88.0	ND	μg/L	R14714
tert-Amyl methyl ether (TAME)	SW8260B	12/4/2007	0.5	8.8	4.40	ND	μg/L	R14714
Toluene	SW8260B	12/4/2007	0.5	8.8	4.40	110	μg/L	R14714
Xylenes, Total	SW8260B	12/4/2007	1.5	22	33.0	3980	μg/L	R14714
Surr: Dibromofluoromethane	SW8260B	12/4/2007	0	22	61.2-131	118	%REC	R14714
Surr: Dibromofluoromethane	SW8260B	12/4/2007	0	8.8	61.2-131	116	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/4/2007	0	22	64.1-120	102	%REC	R14714
Surr: 4-Bromofluorobenzene	SW8260B	12/4/2007	0	8.8	64.1-120	110	%REC	R14714
Surr: Toluene-d8	SW8260B	12/4/2007	0	22	75.1-127	115	%REC	R14714
Surr: Toluene-d8	SW8260B	12/4/2007	0	8.8	75.1-127	130 S	%REC	R14714
S - High surrogate recovery attributed	d to matrix interference							
TPH (Gasoline)	SW8260B(TPH)	12/4/2007	50	22	1100	24400x	μg/L	G14714
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	12/4/2007	0	22	58.4-133	109	%REC	G14714

Note: x-Although TPH as Gasoline is present, result is elevated due to presence of non-target compounds (heavy end) within the TPH as Gasoline quantitative range.

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Date: 05-Dec-07

CLIENT: Remediation Risk Management, Inc.

Work Order: 0711133 **GWS Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: G14714

Sample ID BLK-G	SampType: MBLK	TestCode: TPH_GAS_W Units: µ	/L Prep Date: 12/4/2007	RunNo: 14714
Client ID: ZZZZZ	Batch ID: G14714	TestNo: SW8260B(TP	Analysis Date: 12/4/2007	SeqNo: 211652
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	ND	50		
Surr: 4-Bromofllurobenzene	12.30	0 11.36 0	108 58.4 133	
Sample ID LCS-G	SampType: LCS	TestCode: TPH_GAS_W Units: µ	/L Prep Date: 12/4/2007	RunNo: 14714
Client ID: ZZZZZ	Batch ID: G14714	TestNo: SW8260B(TP	Analysis Date: 12/4/2007	SeqNo: 211653
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	266.0	50 227 32.6	103 52.4 127	
Surr: 4-Bromofllurobenzene	11.60	0 11.36 0	102 58.4 133	
Sample ID LCSD-G	SampType: LCSD	TestCode: TPH_GAS_W Units: μ	/L Prep Date: 12/4/2007	RunNo: 14714
Client ID: ZZZZZ	Batch ID: G14714	TestNo: SW8260B(TP	Analysis Date: 12/4/2007	SeqNo: 211654
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	244.0	50 227 32.6	93.1 52.4 127 266	8.63 20
Surr: 4-Bromofllurobenzene	10.60	0 11.36 0	93.3 58.4 133 0	0 0

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 1 of 3

CLIENT: Remediation Risk Management, Inc.

Work Order: 0711133 **Project: GWS**

ANALYTICAL QC SUMMARY REPORT

BatchID: R14714

Sample ID MB	SampType:	MBLK	TestCod	de: 8260B_W	Units: µg/L		Prep Dat	e: 12/3/20	07	RunNo: 14 7	714	
Client ID: ZZZZZ	Batch ID:	R14714	TestN	lo: SW8260B		Analysis Date: 12/3/2007		SeqNo: 211536				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	0.500									
Ethyl tert-butyl ether (ETBE)		ND	0.500									
Ethylbenzene		ND	0.500									
sopropyl ether (DIPE)		ND	0.500									
Methyl tert-butyl ether (MTBE)		ND	0.500									
-Butyl alcohol (t-Butanol)		ND	5.00									
tert-Amyl methyl ether (TAME)		ND	0.500									
Toluene		ND	0.500									
Xylenes, Total		ND	1.50									
Surr: Dibromofluoromethane		11.97	0	11.36	0	105	61.2	131				
Surr: 4-Bromofluorobenzene		12.20	0	11.36	0	107	64.1	120				
Surr: Toluene-d8		13.48	0	11.36	0	119	75.1	127				
Sample ID LCS	SampType:	LCS	TestCod	de: 8260B_W	Units: µg/L		Prep Dat	e: 12/3/20	07	RunNo: 147	714	
Client ID: ZZZZZ	Batch ID:	R14714	TestN	lo: SW8260B		Analysis Date: 12/3/2007 SeqNo: 21		SeqNo: 21	1537			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		19.35	0.500	17.04	0	114	66.9	140				
Toluene		17.06	0.500	17.04	0	100	76.6	123				
Surr: Dibromofluoromethane		13.83	0	11.36	0	122	61.2	131				
Surr: 4-Bromofluorobenzene		11.88	0	11.36	0	105	64.1	120				
Surr: Toluene-d8		13.26	0	11.36	0	117	75.1	127				
Sample ID LCSD	SampType:	LCSD	TestCod	de: 8260B_W	Units: µg/L		Prep Dat	e: 12/3/20	007	RunNo: 147	714	
Client ID: ZZZZZ	Batch ID:	R14714	TestN	lo: SW8260B		Analysis Date: 12/3/2007		SeqNo: 211538				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		16.24	0.500	17.04	0	95.3	66.9	140	19.35	17.5	20	
Toluene		17.90	0.500	17.04	0	105	76.6	123	17.06	4.81	20	
Surr: Dibromofluoromethane		12.43	0	11.36	0	109	61.2	131	0	0	0	
Carr. Dibromonacioniculario		12.10	•		-				-	-	•	

Qualifiers: Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 2 of 3

CLIENT: Remediation Risk Management, Inc.

Work Order: 0711133

BatchID: R14714 **GWS Project:**

Sample ID LCSD	SampType: LCSD	TestCoo	le: 8260B_W	Units: µg/L		Prep Da	te: 12/3/20	007	RunNo: 14	714	
Client ID: ZZZZZ	Batch ID: R14714	TestN	lo: SW8260B			Analysis Da	te: 12/3/20	007	SeqNo: 21	1538	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	13.20	0	11.36	0	116	75.1	127	0	0	0	

RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

CHAIN OF CUSTODY

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

	LAB	WORK	ORDER	NO
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LABORATORY, INC. www.torrentlab.com	* works wearing in		maritime and the second section of the section of the second section of the section		+11135
Company Name: RAM, Thc.	5	Location of Sampling	: 900 Central	Ave , Alame	da
Address: 2560 Sociel Ave. #20	2	Purpose: GW	S	7	
City: State: CA State: CA	Zip Code:95562	Special Instructions /	Comments: No A4+8-6	, gas littlex by	\$2603.
Telephone: 831 475 8141 FAX: 831 475				matternsc.c	om
REPORT TO: Matt Karmpf SAMPLER: Wil	11 B.	P.O. #: NCE5	514 EMAIL:	& labdata Brrm	scrom
TURNAROUND TIME: SAMPLE TYPE:	REPORT FO	RMAT: ts ts X			
	Air QC Level IV	B - Full List B - 8010 List B - 8010 List	081 081 17 7 Metals	4	ANALYSIS
7 Work Days 2 Work Days 2 - 8 Hours Waste Water Ground Water	Other Excel / EDI	B B - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	sel [List	REQUESTED
7 Work Days 2 Work Days 2 - 8 Hours Ground Water 5 Work Days 1 Work Day Other Soil		A 826 A 826 P gas Ygena	Motor Oil Pesticide - 8081 PCB - 8082 als	Ts Or Hs Or	
LAB ID CLIENT'S SAMPLE I.D. DATE / TIME SAMPLED		THO BASE OB OXygenates	☐ THP Diesel ☐ S ☐ Motor Oil ☐ Pesticide - 8081 ☐ PCB - 8082 Metals ☐ CAM - 17 ☐ LUFT 5 ☐ 7 M6	B270 Full List	REMARKS
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Relinquished By: Print: Date:	Time:	Received By:	Print:	Date: 07	Time:
Were Samples Received in Good Condition? Yes NO Sa	mples on Ice? Yes	NO Method of Shipi	ment D /ð	Sample seals intact?	Yes NO NA
NOTE: Samples are discarded by the laboratory 30 days from date	e of receipt unless other ar	rrange -ments are ma	ide.	Page	of
65 D-1 10 1/A	I I am In Davierna	. a. D	D-4		

Site Information

900 Central Ave.
Project Address
Alameda
City

Water Level Equipment
Oil Water Interface Probe
Other (specify)

Site Information

1/2807

KCE514
Project Number

KCE514
Project Number

KCE514
Project Number

California
State

Alameda
California
State

Notes:
Other (specify)

County

Site Information

2560 Soquel Ave. #202
Santa Cruz, CA 95062
(831) 475-8141

Santa Cruz, CA 95062
(831) 475-8141

Site Information

2560 Soquel Ave. #202
Santa Cruz, CA 95062
(831) 475-8141

Site Information

Site Information

Alameda
California
State

Other (specify)

Other (specify)

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DTW Order	Well ID	Time (24:00)	Total Depth	(to) or tob)	(toc or tob)	Depth to SPH	SPH Thickness	1
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#5	MW-4	0801	17.95'	12.43	·		 	
#6	MW-5	0802	17.95'	12.29	 		 	
#7	MW-6	0803	17.10'	12.29				
#3	RW-1	0755	19.05'	11.97				-
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Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. Santa Cruz, CA 95062 (831) 475-8141 MW-1 KCE514 Project Number 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 = i8.730.75 in. 0.023 Purge Notes: depth to.water . 12.94 1 in. 0.04 linear feet of water = 5.79 2 in. 0.17 gallons per linear foot x .12 4 in. 0.67 gallons per casing = 0,98 6 in. 1.5 number of casings X other calculate calculated purge = 2.95 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time gallons temp color turbity odor (24:00) (°F circle (us @ 25° C) (purged) (units) (see below) (NTU or see below (see below) 0710 start 0 0912 630 7.01 1,00 volume 1 16.6 SVay mod. strong. 0914 7.23 2,00 volume 2 1 629 17.1 0916 3.00 7.23 648 " volume 3 11 181 huy. 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 Time (24:00) MW-1 112807 0925 Sampled By: Dupe # # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: **✓**TPH gas (8260B) **★**BTEX (8260B) 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 HNO₃ Lune Other (specify) Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-2 KCE514 Well/Sample Point ID 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 18.40 total depth = 0.75 in. 0.023 Purge Notes: 12.67 depth to water 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 1.5 3 number of casings X other calculate 2.92 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time gallons рΗ EC temp color turbity odor (24:00) (purged) (units) (us @ 25° C) (°F circle °C) (see below) (NTU or see below (see below) 0836 start 0838 1.00 7.04 320 volume 1 15, 6 brinn 464 Mohe 0840 2.00 7.05 195 volume 2 16. 0842 3.00 7.23 volume 3 171 17.4 1 (4 (11 volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate 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) MW-2 112807 0850 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) 40 ml BTEX (8260B) 3 HCI MtBE (8270) Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA TPH diesel (8015M) 1 liter amber none Metals (8010) 500 ml plastic HNO₃ won ws Other (specify) Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. KCE514 Project Address 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 = 18.70 0.75 in. 0.023 Purge Notes: depth to water - 12.31 1 in. 0.04 linear feet of water = 6-39 2 in. 0.17 gallons per linear foot x, $\sqrt{7}$ 4 in. 0.67 gallons per casing = 1, 0 9 6 in. 1.5 number of casings X other calculate calculated purge = $3.\overline{26}$ 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time gallons EC turbity odor (24:00)(us @ 25° C) (purged) (units) (°F circle 😭 (see below) (NTU or see below (see below) 0815 start 0 0820 1.00 354 7.16 17.6 brown hvy. volume 1 hone 0822 334 2.25 7.10 18,6 4 volume 2 3.50 0824 708 3 27 18.8 " volume 3 ٤ ۽ 11 volume 4 complete brown, yellow cloudy, clear neavy, moderate strong, moderate 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 Time (24:00) MW-3 112807 0835 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) MtBE (8270) N(CI) 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 Chins Other (specify) Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-4 KCE514 Project Address Well/Sample Point ID 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 total depth = 17.95 0.75 in. 0.023 Purge Notes: depth to water - 12.43 1 in. 0.04 linear feet of water = 5, 5 Z 2 in 0.17 .17 gallons per linear foot X 4 in. 0.67 gallons per casing = 6 in 1.5 number of casings X other calculate 2.82 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time gallons color turbity odor (24:00)(purged) (units) (us @ 25° C) (°F circle (Ĉ) (see below) (NTU or see below (see below) 0925 start 1,00 7,03 340 volume 1 15.7 brown huy. SIGht 0929 2.00 volume 2 343 6. 99 18.2 21 11 4 0931 3,00 315 volume 3 7.01 17.4 į, 45 " volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Diposable Bailer Teflon #: Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) MW-4 112807 0940 Sampled By: Dune # # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) 40 m 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 HNO₃ an's Other (specify) _ Signature:

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 Well/Sample Point ID 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 diameter linear foot total depth = 17.950.75 in. 0.023 Purge Notes: depth to water $-12.\overline{29}$ 1 in. 0.04 linear feet of water = 5.64 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 0.96 6 in. 1.5 number of casings X other calculate calculated purge = 2.87 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time pН EC color temp turbity odor (24:00) (us @ 25° C) (purged) (units) (°F circle (C) (see below) . (NTU or see below (see below) 0.940 start 7.00 0942 7.00 219 brown 17.3 hvy. volume 1 home 0944 233 1 1 2,00 volume 2 7,00 4 0746 3.00 231 18.0 volume 3 u 11 7,00 ŧ, volume 4 complete brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, 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 Time (24:00) Date MW-5 0955 117807 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Sampling Notes: Preservative TPH gas (8260B) BTEX (8260B) 40 m 2 MtBE (8270) Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HÇI TPH diesel (8015M) 1 liter amber none Metals (8010) with who 500 ml plastic HNO₃

Signature:

Other (specify)

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-6 KCE514 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 total depth = 17.10 0.75 in. 0.023 Purge Notes: depth to water - 12,24 1 in. 0.04 linear feet of water = 4.86 2 in 0.17 gallons per linear foot x +17 4 in. 0.67 gallons per casing = 0.83 6 in. 1.5 number of casings X other calculate calculated purge = 2.48 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y EC рΗ temp color turbity odor (24:00)(purged) (units) (us @ 25° C) (°F circle C) (see below) (NTU or see below (see below) 0955 start 0957 0.75 volume 1 20.O brown huy. horn 0959 volume 2 41 11 2.50 1003 41 .41 25 4 volume 3 volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Diposable Bailer Teflon #: ___ Extraction Well Submersible Pump; type: Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Time (24:00) MW-6 112807 1015 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) HCL MtBE (8270) Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA нсі TPH diesel (8015M) 1 liter amber none with Mh Metals (8010) 500 ml plastic HNO₃ Other (specify) _ Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. RW-1 KCE514 Project Address Well/Sample Point ID Alameda Alameda California County 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 = 19.050.75 in. 0.023 Purge Notes: depth to water - 11.97 1 in. 0.04 linear feet of water = 7.082 in. 0.17 gallons per linear foot x . . 62 4 in. 0.67 gallons per casing = 4.74 6 in. 1.5 number of casings X other calculate calculated purge = 14.23 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y time рΗ EC temp color turbity (24:00) (°F circle (C) (purged) (units) (u s @ 25° C) (see below) . (NTU or see below (see below) 0850 start 0855 7.01 446 16.8 hvy. Strong volume 1 gray/green 0859 439 18.5 6.98 volume 2 0902 430 2.4 14.25 6.98 18.8 7.1 11 volume 3 volume 4 complete brown, yellow cloudy, clear neavy, moderate strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well 💚 Bailer Diposable Teflon #: _ Extraction Well Submersible Pump; type: _ Dother (specify) Recovery Well Sampling Port Other (specify) Sample ID Time (24:00) RW-1 0910 112807 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) 40 ml Ю MtBE (8270) Fuel Oxys, no MtBE (8270) ΌΑ Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI TPH diesel (8015M) 1 liter amber none with 1 Metals (8010) 500 ml plastic HNO₃ Other (specify) Signature:



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Former Holland Oil	Project #: KCF514
Job Address: 900 Central Ave. Alameda	Date: // 2867
Weather Conditions: Clear	Personnel: (WB
Equipment on site: truck, Sampling equipment	
Arrival Time: 0730	
Departure Time: 1030	
FIELD NOTES:	
•	,
Look over site and prepare for a 5.x soil drams still on site	work apoin amilial.
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0745 Begin DTW measurements	
0805 Finish 11 begin pur	je calculations
0815 Begin Sampling.	
1020 Filuish begin chean up and	water transfer
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400 Officiali Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

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

Company Name: RIM, INC.	ompany Name: RIM, Thc. ddress: 2560 Sognel Ave. #202 ity: State: A Zip Code: 9506 elephone: 831 475 8141 FAX: 831 475 8249 EPORT TO: Math Karmof SAMPLER: W, 11 B				on of Samplin	a: 900	Cont	va l	1	11.	1.
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City: Santa Cruz St	ate: A	Zip Code	95062	Specia	I Instructions	/ Comment	s No N	HBE	995 66	tex bu	876NB -
Telephone: 831 475 8141 FAX	831475	582	49	טאט.	s by 8	270 -			J		02605,-
REPORT TO: Matt Karmpf	SAMPLER: W,	11 B.		P.O. #:	NCF	514		/n	atter	pmsc	com 15C.com
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10 Work Days 3 Work Days Noon - No 7 Work Days 2 Work Days 2 - 8 Hour 5 Work Days 1 Work Day Other	1,—	Air Other	QC Level IV EDF Excel / EDD)	EPA 8260B - Full List EPA 8260B - 8010 List THP gas EBTEX Oxygenates MTBE	THP Diesel Si-Gel Motor Oil	PCB - 8082	Metals CAM - 17 LUFT 5 7 Metals	PAHs Only		ANALYSIS REQUESTED
LAB ID CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX		ONT YPE				etals	P P S		DEMARKS
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MW-5	0955										
MW-G	1015										
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2 Relinquished By: Print:	Date:	<u> </u>	Time:		Received By:	Kay	Print:		Date:	8/07	3.05pm Time:
Were Samples Received in Good Condition? NOTE: Samples are discarded by the labor Log In By:		of receipt u	e? MY Yes Canless other arrange In Reviewed	ange	lethod of Shipn		Date		Sample sea	als intact?	Yes



May 12, 2008 RRM Project # KCE514

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

Re: First Quarter 2008 Groundwater Monitoring Results

900 Central Avenue Alameda, CA

Dear Mr. Kelleher:

This report, prepared by RRM, Inc. (RRM), presents the results of the first quarter 2008 groundwater monitoring event conducted on February 28, 2008 at the referenced site (Figure 1). Well specifications are presented in Table 1. Groundwater elevation and analytical data are presented in Table 2. A site map is presented as Figure 2. A groundwater elevation contour map is presented as Figure 3. A gasoline range total petroleum hydrocarbon (TPHg) isoconcentration map is presented as Figure 4. Previous remedial investigation work is summarized in Attachment A. Field and analytical procedures are presented as Attachment B. Certified analytical reports, chain-of-custody, and field data sheets are presented as Attachment C.

SITE BACKGROUND

Site Description and History – The site is located on the southeast corner of Central Avenue and Ninth Street in Alameda, CA. 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, CA 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).

CURRENT GROUNDWATER MONITORING RESULTS

Groundwater Elevation, Flow Direction and Gradient

Groundwater elevations at monitoring wells MW-1 through MW-6, and RW-1 were calculated from depth to water data and are shown on Table 2 and Figure 3. Groundwater elevations ranged from 19.56 feet above mean sea level (MSL) at well MW-4 to 20.42 feet above MSL at well MW-2. The groundwater flow direction beneath the site is west at a gradient of approximately of 0.008 foot/foot. Groundwater elevations had increased approximately 4 feet since the last monitoring event RRM conducted in November 2007 presumably due to the effects of storm events. Such pronounced seasonal fluctuations in the shallow water table are typical for this site.

Groundwater Analytical Data

Analytical data for groundwater samples collected from monitoring wells MW-1 through MW-6, and RW-1 are summarized in Table 2 and shown on Figure 4. TPHg was detected only in Well RW-1 at a concentration of 10,100 ppb. Benzene was not detected in any of the samples above a reporting limit of 0.50 ppb. Analysis for MtBE and other fuel oxygenates was discontinued because it has never been detected beneath the site. Certified analytical reports and chain-of-custody documentation are presented in Attachment C. TPHg and BTEX levels for MW-1 (all under detection limits) matched historic lows. TPHg levels in the past two events exceeded 50,000 ppb and benzene exceeded 2,500 ppb. Such pronounced seasonal fluctuations in MW-1 contaminant levels are typical for this site.

CONCLUSIONS

- 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 were not detected in any of the 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 concentrations in Well RW-1 and MW-1 in most prior events indicate the
 presence of residual contamination in the vicinity of the former USTs; these concentrations may
 continue to affect groundwater quality. In addition, the TPHg and benzene concentrations at
 these wells exceed current San Francisco Bay Region RWQCBs Environmental Screening
 Levels for the vapor intrusion/indoor air pathway for residential land use.
- The pronounced seasonal fluctuations in contaminant levels at well MW-1 appear to correlate
 with pronounced seasonal fluctuations of the water table and suggest the well is located very
 close to the lateral edge of the petroleum hydrocarbon plume.

RECOMMENDATIONS

RRM recommends the continuation of quarterly sampling and reporting for all site wells. RRM also recommends completing the feasibility study proposed in its October 23, 2007, *Subsurface Investigation Results, Second and Third Quarter 2007 Groundwater Monitoring Result.* To date, RRM has not yet received written or verbal approval from the Alameda County Health Care Services Agency to conduct the aforementioned feasibility study.

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 – Well Specifications

Table 2 – Groundwater Elevation and Analytical Data

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Groundwater Elevation Contour Map, February 28, 2008

Figure 4 – TPHg/Benzene Groundwater Concentration Map, February 28, 2008

Attachment A – Summary of Prior Investigation Work

Attachment B – Field and Analytical Procedures

Attachment C – Certified Analytical Reports, Chain-of-Custody Documentation, and

Table 1
Well Specifications

900 Central Avenue Alameda, California

	Total Depth	Casing Diameter	Screened Interval	Screen Length
Well	(feet, bgs)	(inch)	(feet, bgs)	(feet)
MW-1	18	2	6 - 18	12
MW-2	19.5	2	6 - 19.5	13.5
MW-3	18	2	6 - 18	12
MW-4	18	2	6 - 18	12
MW-5	18	2	6 - 18	12
MW-6	18	2	6 - 18	12
RW-1	20	4	5 - 20	15

Notes:

bgs = below ground surface

Table 2 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	2,570	2,370	1,120	9,560	<11	NA	NA	1,3
	11/28/07		12.94	15.33	51,700	3,160	3,270	1,050	9,250	<11.0	NA	NA	1,3
	02/28/08		8.10	20.17	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4
NAVA / O	44/07/00	05.40	44.70	40.44	50	0.50	0.50	0.50	0.50	5.0	50	500	
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	<1.50	<0.5	NA	NA	1,2
	05/04/07		9.43	15.74	<50	<0.500	<0.500	<0.500	<1.50	NA	NA	NA	1
	08/23/07	28.31	11.94	16.37	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.67	15.64	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	02/28/08		7.89	20.42	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4
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	<1.50	<0.5	NA	NA	1
	05/04/07		9.19	15.98	<50	< 0.500	<0.500	<0.500	<1.50	NA	NA	NA	1
	08/23/07	27.69	11.63	16.06	<50	< 0.500	<0.500	<0.500	<1.50	< 0.500	NA	NA	1
	11/28/07		12.31	15.38	<50	< 0.500	< 0.500	< 0.500	<1.50	< 0.500	NA	NA	1
	02/28/08		7.46	20.23	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4

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Table 2 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-4	08/23/07	27.37	11.73	15.64	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.43	14.94	<50	< 0.500	<0.500	< 0.500	<1.50	< 0.500	NA	NA	1
	02/28/08		7.81	19.56	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4
MW-5	08/23/07	27.25	11.56	15.69	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.29	14.96	<50	< 0.500	< 0.500	< 0.500	<1.50	< 0.500	NA	NA	1
	02/28/08		7.55	19.70	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4
MW-6	08/23/07	27.24	11.52	15.72	<50	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	1
	11/28/07		12.24	15.00	<50	< 0.500	<0.500	< 0.500	<1.50	<0.500	NA	NA	1
	02/28/08		7.43	19.81	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	4
RW-1	08/23/07	27.43	11.23	16.20	16,000	<4.40	38.9	571	2,660	<4.40	NA	NA	1,3
	11/28/07		11.97	15.46	24,400	4.75	110	915	3,980	<4.40	NA	NA	1,3
	02/28/08		7.22	20.21	10,100	<0.5	40.3	256	1,430	NA	NA	NA	1,3

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)

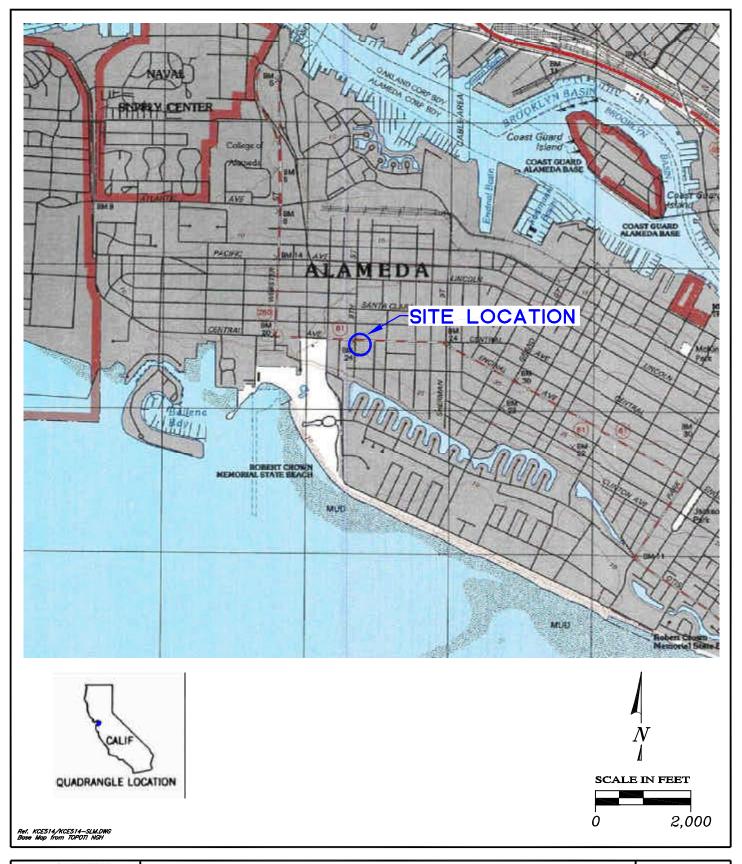
< = none detected at or above reported detection limit

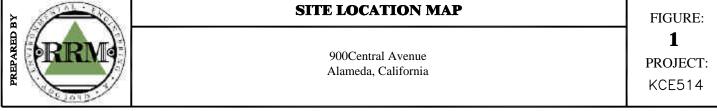
NS = not sampled

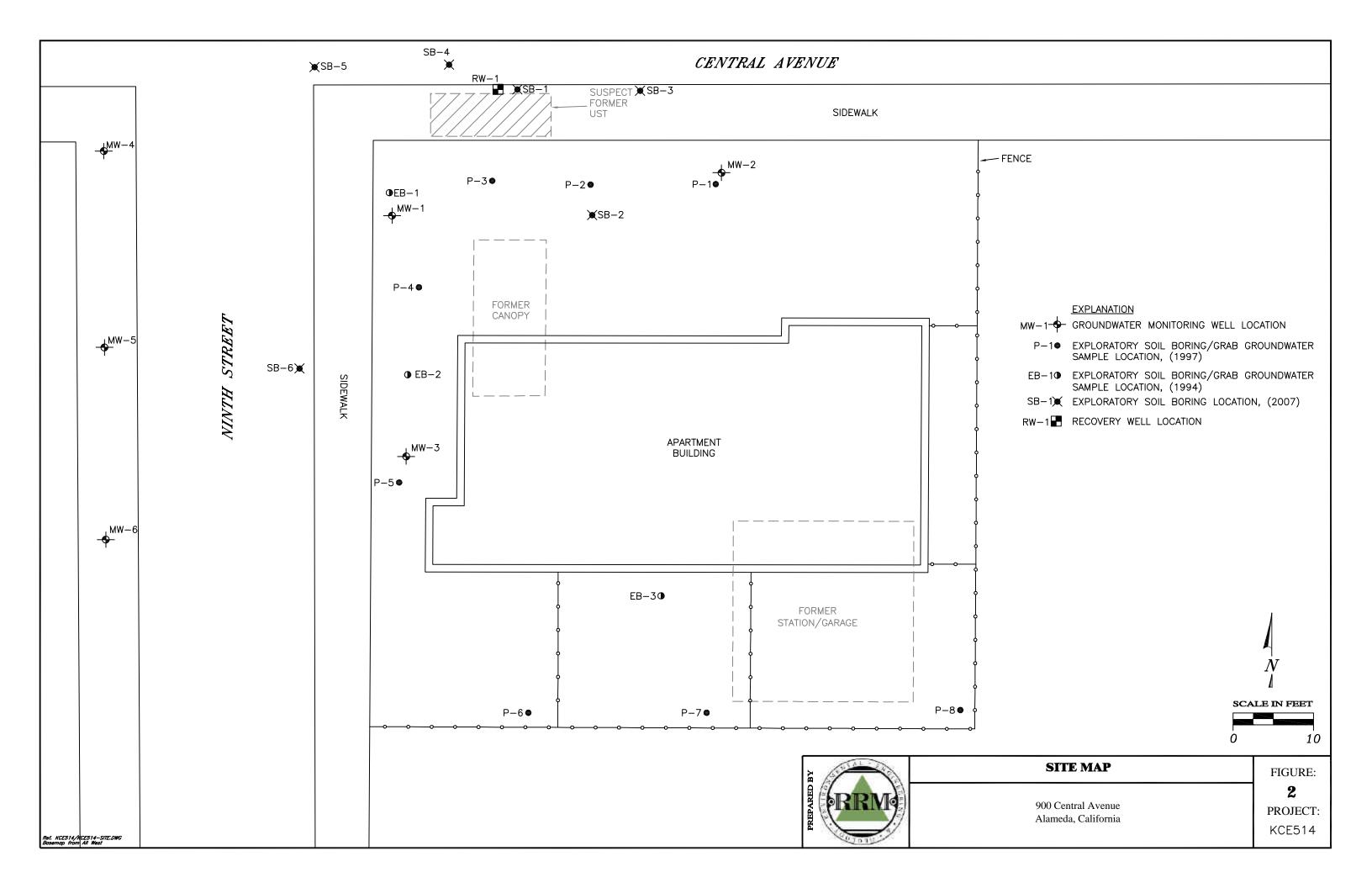
NA = not analyzed

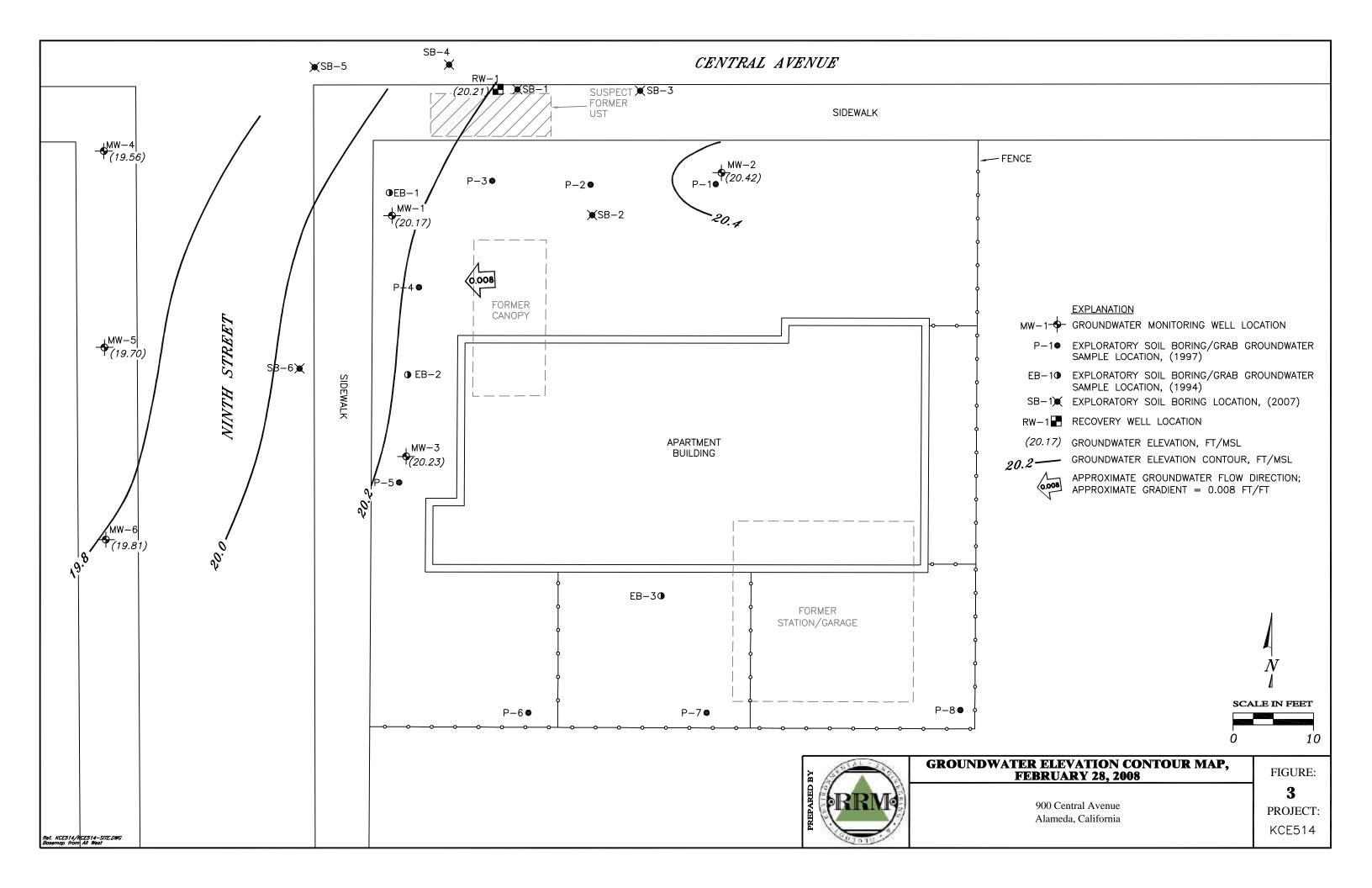
- 1 = also sampled for the fuel oxygenates ethyl tert-butyl ether (ETBE), isopropyl ether (DIPE), t-butyl alcohol (t-butanol) (TBA), and tert-amyl methyl ether (TAME); none of these compounds detected above the laboratory limit.
- 2 = the laboratory reported value due to discrete peaks present within 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
- 4 = also sampled for the fuel oxygenates ethyl tert-butyl ether (ETBE), t-butyl alcohol (t-butanol) (TBA), and tert-amyl methyl ether (TAME); none of these compounds detected above the laboratory limit.

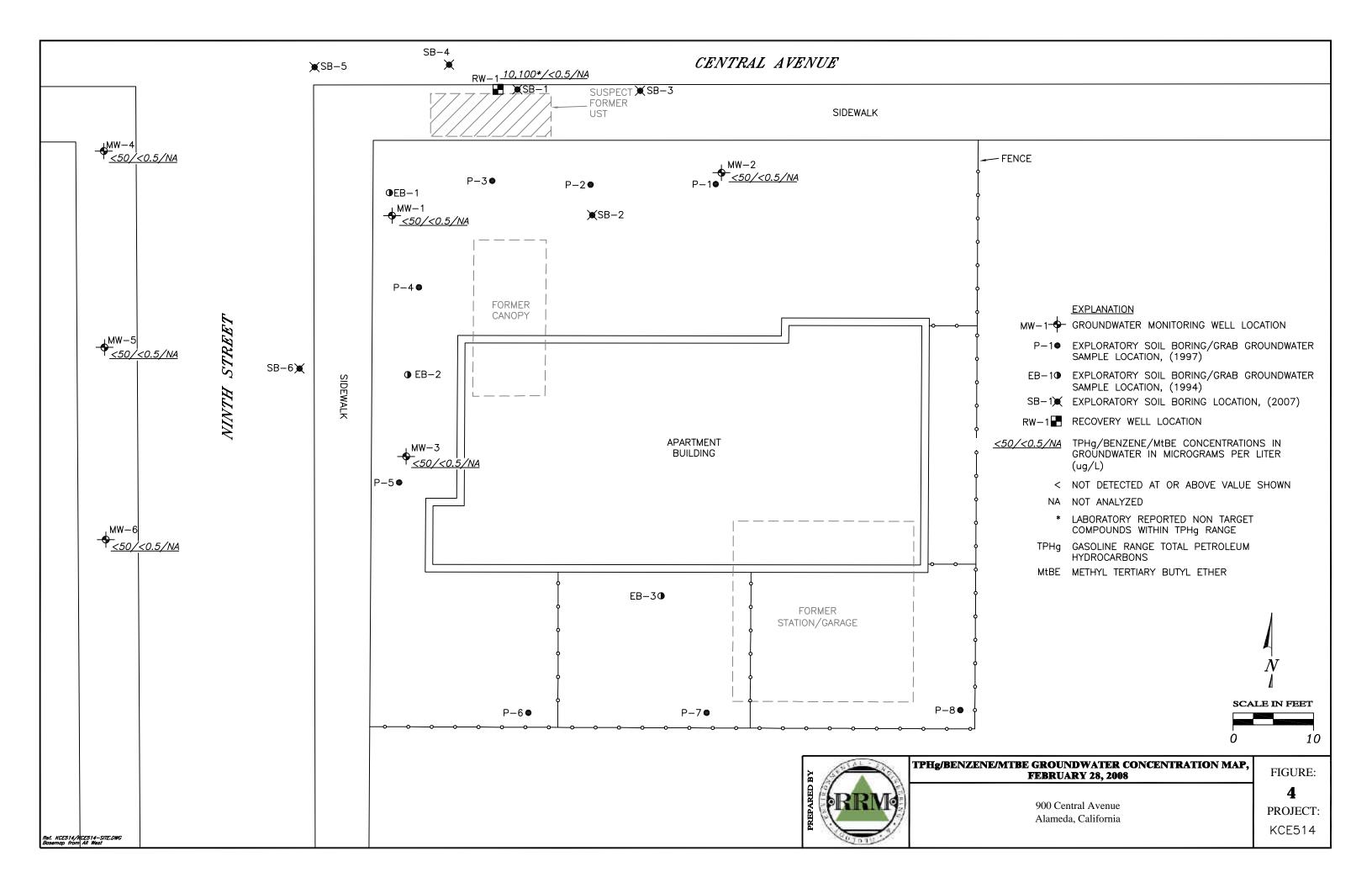
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SUMMARY OF PRIOR INVESTIGATION WORK

ATTACHMENT A SUMMARY OF PRIOR INVESTIGATION WORK

Historic Remedial Investigations and Groundwater Monitoring

April 1994 Subsurface Investigations - Lowney Associates (Lowney) of Mountain View, CA 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, CA 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; Methyl tert-Butyl Ether (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 identified four irrigation wells and one monitoring well within approximately 500 feet of the site. They prepared a site conceptual model consisting of a 3-dimensional drawing showing known areas of subsurface contamination and potential sensitive receptors. They performed a cursory risk assessment using risk-based screening levels (RBSLs) set forth in published Regional Water Quality Control Board (RWQCB) lookup tables. Based on the risk assessment, Allwest concluded that the levels of TPHg and benzene in groundwater at MW-posed a possible risk to nearby residences via the vapor intrusion pathway. (Allwest: "2002 Annual Groundwater Monitoring & Risk Assessment Report," January 31, 2003).

B

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT B FIELD AND ANALYTICAL PROCEDURES

Groundwater Sampling

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.

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.

C

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS



March 06, 2008

Matt Kaempf Remediation Risk Management, Inc. 2560 Soquel Ave, Suite 202 Santa Cruz, CA 95062

TEL: (831) 475-8141 FAX (831)475-8249

RE: 900 Central Ave, Alameda

Laboratory Director Date

Dear Matt Kaempf:

Torrent Laboratory, Inc. received 7 samples on 2/28/2008 for the analyses presented in the following report.

Order No.: 0802158

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Patti Sandrock

QA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Matt Kaempf

Date Received: 2/28/2008

Remediation Risk Management, Inc.

Date Reported:

Client Sample ID: MW-1

Lab Sample ID: 0802158-001

Sample Location: 900 Central Ave, Alameda

Date Prepared: 3/4/2008

Sample Matrix: GROUNDWATER

Date/Time Sampled 2/28/2008 10:05:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	81.4	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	112	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	87.8	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	86.2	%REC	G15575

Remediation Risk Management, Inc.

Date Received: 2/28/2008

Date Reported:

Client Sample ID: MW-2

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 2/28/2008 9:45:00 AM

Lab Sample ID: 0802158-002 **Date Prepared:** 3/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	75.4	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	101	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	82.2	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	86.2	%REC	G15575

Remediation Risk Management, Inc.

Date Received: 2/28/2008

Date Reported:

Client Sample ID: MW-3

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 2/28/2008 9:30:00 AM

Lab Sample ID: 0802158-003 **Date Prepared:** 3/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	77.8	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	110	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	90.2	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	94.8	%REC	G15575

Remediation Risk Management, Inc.

Date Received: 2/28/2008

Date Reported:

Client Sample ID: MW-4

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 2/28/2008 9:05:00 AM

Lab Sample ID: 0802158-004 **Date Prepared:** 3/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	85.6	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	109	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	84.3	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	69.0	%REC	G15575

Remediation Risk Management, Inc.

Date Received: 2/28/2008

Date Reported:

Client Sample ID: MW-5

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 2/28/2008 8:50:00 AM

Lab Sample ID: 0802158-005 **Date Prepared:** 3/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	81.2	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	118	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	86.4	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	77.6	%REC	G15575

Remediation Risk Management, Inc.

Date Received: 2/28/2008

Date Reported:

Client Sample ID: MW-6

Sample Location: 900 Central Ave, Alameda

Sample Matrix: GROUNDWATER **Date/Time Sampled** 2/28/2008 8:35:00 AM

Lab Sample ID: 0802158-006 **Date Prepared:** 3/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	1	10.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	1	0.500	ND	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	1	1.50	ND	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	1	61.2-131	92.6	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	1	64.1-120	104	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	1	75.1-127	92.2	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	1	50	ND	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	1	58.4-133	94.8	%REC	G15575

Report prepared for: Matt Kaempf **Date Received:** 2/28/2008

Remediation Risk Management, Inc. Date Reported:

Client Sample ID:RW-1Lab Sample ID:0802158-007Sample Location:900 Central Ave, AlamedaDate Prepared:3/4/2008

Sample Location: 900 Central Ave, Alameda
Sample Matrix: GROUNDWATER
Date/Time Sampled 2/28/2008 10:30:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	3/4/2008	0.5	8.8	4.40	ND	μg/L	R15575
Ethyl tert-butyl ether (ETBE)	SW8260B	3/4/2008	0.5	8.8	4.40	ND	μg/L	R15575
Ethylbenzene	SW8260B	3/4/2008	0.5	8.8	4.40	256	μg/L	R15575
t-Butyl alcohol (t-Butanol)	SW8260B	3/4/2008	10	8.8	88.0	ND	μg/L	R15575
tert-Amyl methyl ether (TAME)	SW8260B	3/4/2008	0.5	8.8	4.40	ND	μg/L	R15575
Toluene	SW8260B	3/4/2008	0.5	8.8	4.40	40.3	μg/L	R15575
Xylenes, Total	SW8260B	3/4/2008	1.5	8.8	13.2	1430	μg/L	R15575
Surr: Dibromofluoromethane	SW8260B	3/4/2008	0	8.8	61.2-131	79.5	%REC	R15575
Surr: 4-Bromofluorobenzene	SW8260B	3/4/2008	0	8.8	64.1-120	95.9	%REC	R15575
Surr: Toluene-d8	SW8260B	3/4/2008	0	8.8	75.1-127	93.7	%REC	R15575
TPH (Gasoline)	SW8260B(TPH)	3/4/2008	50	22	1100	10100x	μg/L	G15575
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/4/2008	0	22	58.4-133	112	%REC	G15575

Note: x- Although TPHg as gasoline is present, result is elevated due to the presence of non-target hydrocarbons within gasoline quantitative range.

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Date: 06-Mar-08

CLIENT: Remediation Risk Management, Inc.

Work Order: 0802158

900 Central Ave, Alameda **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: G15575

Sample ID: MB-G	SampType: MBLK	TestCode	: TPH_GAS	_W Units: μg/L		Prep Date: 3/4/2008				RunNo: 15575		
Client ID: ZZZZZ	Batch ID: G15575	TestNo	TestNo: SW8260B(TP			Analysis Date: 3/4/2008				SeqNo: 223660		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Gasoline)	ND	50										
Surr: 4-Bromofllurobenzene	12.00	0	11.36	0	106	58.4	133					
Sample ID: LCS-G	SampType: LCS	TestCode	TestCode: TPH_GAS_W Units: µg/L Pre					8	RunNo: 15	575	·	
Client ID: ZZZZZ	Batch ID: G15575	TestNo	: SW8260B(TP	Analysis Date: 3/4/2008			8	SeqNo: 223661			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Gasoline)	207.0	50	227	0	91.2	52.4	127					
Surr: 4-Bromofllurobenzene	12.00	0	11.36	0	106	58.4	133					
Sample ID: LCSD-G	SampType: LCSD	TestCode	: TPH_GAS	_W Units: μg/L		Prep Dat	te: 3/5/200	8	RunNo: 15	575		
Client ID: ZZZZZ	Batch ID: G15575	TestNo	: SW8260B(TP		Analysis Da	te: 3/5/200	8	SeqNo: 223	3662		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Gasoline)	215.0	50	227	0	94.7	52.4	127	207	3.79	20		

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

*Page 1 of 2**

CLIENT: Remediation Risk Management, Inc.

Work Order: 0802158

Project:

BatchID: R15575 900 Central Ave, Alameda

Sample ID: MB	SampType: MBLK	TestCod	le: 8260B_W	Units: µg/L		Prep Dat	e: 3/4/200	8	RunNo: 15	575	
Client ID: ZZZZZ	Batch ID: R15575	TestN	lo: SW8260B			Analysis Dat	e: 3/4/200	8	SeqNo: 223	8649	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
Ethylbenzene	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	5.00									
tert-Amyl methyl ether (TAME)	ND	0.500									
Toluene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	9.040	0	11.36	0	79.6	61.2	131				
Surr: 4-Bromofluorobenzene	12.63	0	11.36	0	111	64.1	120				
Surr: Toluene-d8	10.45	0	11.36	0	92.0	75.1	127				
Sample ID: LCS	SampType: LCS	TestCod	le: 8260B_W	Units: µg/L		Prep Dat	e: 3/4/200	RunNo: 15	575		
Client ID: ZZZZZ	Batch ID: R15575	TestN	lo: SW8260B		Analysis Date: 3/4/2008			SeqNo: 223650			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.26	0.500	17.04	0	101	66.9	140				
Toluene	17.80	0.500	17.04	0	104	76.6	123				
Surr: Dibromofluoromethane	9.260	0	11.36	0	81.5	61.2	131				
Surr: 4-Bromofluorobenzene	9.560	0	11.36	0	84.2	64.1	120				
Surr: Toluene-d8	10.44	0	11.36	0	91.9	75.1	127				
Sample ID: LCSD	SampType: LCSD	TestCod	le: 8260B_W	Units: µg/L		Prep Dat	e: 3/4/200	8	RunNo: 15	575	
Client ID: ZZZZZ	Batch ID: R15575	TestN	lo: SW8260B			Analysis Dat	e: 3/4/200	8	SeqNo: 223	8651	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.02	0.500	17.04	0	99.9	66.9	140	17.26	1.40	20	
Toluene	16.38	0.500	17.04	0	96.1	76.6	123	17.8	8.31	20	
Surr: Dibromofluoromethane	8.850	0	11.36	0	77.9	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	9.850	0	11.36	0	86.7	64.1	120	0	0	0	
Surr: Toluene-d8	9.830	0	11.36	0	86.5	75.1	127	0	0	0	

Value above quantitation range Qualifiers:

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

ANALYTICAL QC SUMMARY REPORT

Spike Recovery outside accepted recovery limits

Page 2 of 2



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258

CHAIN OF CUSTODY FAX: 408.263.8293

LAB	WORK	ORDER	NO

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

0802158

LABORATORY, INC.	www.torrentlab.com	1						. 11 \ hart 4				<i>)</i> [
Company Name: RNM , Ih	C			Locati	on of Samplir	g: 90	00 C	ent	ral	A	ر ح	Alan	ned	lan		
Address: 2560 Soqvel City: Santa Cruz Telephone: 83/4758141 FA	Avr. #202			Purpo	se: QG	W5					1					
City: Santa Cruz	State:	Zip Code:	75067	Z Specia	al Instructions	/ Comm	ents:	4	CE	514	: (no s	4+B	E)		
Telephone: 83/475814L FA	x: 831 475	5826	19	Glob	d IOH	706	0016	208	39							
REPORT TO: Matt Kacypt	SAMPLER: W	3		P.O. #	#:			E	MAIL:	49#8 1050	runsc Lata	@m	w151	c.com		
TURNAROUND TIME:	SAMPLE TYPE	:	REPORT F	ORMAT:		Jeg /			<u>s</u>				1			
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 H ☐ 5 Work Days ☐ 1 Work Day ☐ Other	Mosto Water	Air Other	QC Level DE Excel / E	el IV EDD	☐ EPA 8260B - Full List ☐ EPA 8260B - 8010 List ☐ THP gas ☐ ☐ ETEX (Diesel Si-Gel	Pesticide - 8081	☐ PCB - 8082	☐CAM - 17 -T 5 ☐ 7 Metal	2270 Full List PAHs Only				ANA REQU	LYSIS JESTE	
LAB ID CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		HT W	□		Metals [•. • •		REMA		
01A MW-1	022808/1005	L	3 1	HCL VOA	X											
02A MW-Z	0945					·										
03A MW-3	0930									j.			j.			
04A MW-4	0905													LO		
05A MW-5	0850															
062 MW-6	0835			·												
=7A RW-1	y 1030	V	<i>y</i>	1				-					4	<u> </u>		
1										<u> </u>						Ţ.
													ė.i.	# - k	\$-	
													e e e e e e e e e e e e e e e e e e e	. By	9 10 10 10 10 10 10 10 10 10 10 10 10 10	*,
1 Relinguished By: Will B	achar UNA 022	808	Time:		Received By	ody		Print:			Date: 2 2	8 0 8	3	Time: 4)	15-6	ر مار
2 Relinquished By: Print:	Date:		Time:		Received By		<u>.</u>	Print:			Date:			Time:		
Were Samples Received in Good Condition? NOTE: Samples are discarded by the la	Yes NO Saboratory 30 days from dat	e of receipt	ce? Yes	_	Method of Sh ments are n) v	ep (H	S	ample s		•	Yes 【) NO [) of] N/A

Depth to Water Data Form				ANTAL . EN	
Site Information	-110				2500 0 4000
900 Central Ave.	022808	KCE514	(5)		2560 Soquel Ave. #202 Santa Cruz, CA 95062
Project Address	Date	Project Number			(831) 475-8141
Alameda	Alameda County	California		100 TO TO	
	County	State			
Water Level Equipment	Measured By:	(co(3)			
Electronic Indicator		name			AALLIED
Oil Water Interface Probe	; Notes:	,			SCANNED
Other (specify)	* ***********************************		· · · · ·		AAIHII
			1		

		-						
								<u></u>
DTW Order	Well ID	Time (24.20)	7	First DTW	Total Depth	Depth to SPH	SPH Thickness	
#6	MW-1	Time (24:00)	Total Depth 18.78	(tio) or tob)	(toc or tob)	(toc or tob)	(toc or tob)	Notes (describe SPI
#5	MW-2	0802		7.00		·		
		0802	18,40	7.89				
#4	MW-3	0800	18.70'	7.89 7.46 7.81		· · · · · · · · · · · · · · · · · · ·		
#3	MW-4	0800 0750 0756 0748	17.95'	7.01		· · · · · · · · · · · · · · · · · · ·		5.
#2	MW-5	0+36	17.95'	7.55				
#1	MW-6	0748	17.10'	7.43				
#7	RW-1	0806	19.05'	7.22				4" Well
	•							
		<u> </u>					Control of the Contro	,
							41	
								3
			·· · · · · · · · · · · · · · · · · · ·				*	3.7
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	- ·	 						
	 	 						
		 						
		*						

Groundwater Sampling Form	(C)
Site Information	Z 10000 0 11 1000
900 Central Ave. Project Address MW-1 Well/Sample Point ID Project Number	2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141
Alameda California	7 ./
City County State	
Purge Information	
Water Level Equipment Purge Equipment	
Baller ☑ Diposable ☐ Teflon #:	
Submersible Pump; type:	
Other (specify)	
Purge Calculation casing gallons per Purged By:	
diameter linear foot name	
16.72	
8.10 H	
depth to water 1 in 0.04	<u> </u>
linear feet of water = 10.63 2 in. 2 in.	•
gallons per linear foot X 17 4 in. 0.67	
3	
number of casings X other calculate	
	Sampling Delay?: N drde Y
time galions pH EC temp color (24:00) (purged) (units) (us @ 25° C) (°F circle C) (see below) (NT	turbity odor
	U or see below) (see below)
	mol shight
volume 2 0 9 5 3 3.50 6.34 163 14.7 u	huy "
volume 3 0 955 5.50 6.34 161 15.3 a	N
volume 4	
complete	
brown, yellow hea cloudy, clear	avy, moderate strong, moderate
Groundwater Sampling Information cloudy, clear	light, trace slight, none
Sample Type Sampling Equipment	
Monitoring Well Sailer Diposable Teflon #:	
Extraction Well Submersible Pump; type:	
Domestic Well Sampling Port	
Other (specify)Other (specify)	
	•
Sample ID Date Time (24:00)	
MW-1 022808 1005 Sampled By:	
Dupe # 12:00 Sampled By:	
# of Cont	
Sampling Notes.	
☑TPH gas (8260B)	
3 MtBE (8270)	
Fuel Oxys, no MtBE (8270)	
	·
Other (specify)	
VOCs (8010 or 8240 or 8260B) 40 ml VOA HCI	
Tru that goest to	
	
Metals (8010) 500 ml plastic HNO ₃	
Other (specify) Signature:	· · · · · · · · · · · · · · · · · · ·

Groundwater Sampling	g Form	····	· · · · · · · · · · · · · · · · · · ·		A C. Y	* Ye	
Site Information	•					2560	O Soquel Ave. #202
900 Central Ave.		MW-2	KCE514			Y Q Z San	ta Cruz, CA 95062
Project Address		Well/Sample Poin	t ID Project Number	_	[23]	.)/	(831) 475-8141
Alameda	Alameda County		California State		_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AD . 4	
Purge Information			State			· · ·	
Water Level Equipment	· · · · · · · · · · · · · · · · · · ·	Purge Equipmer	nt	·· <u>· · · · · · · · · · · · · · · · · ·</u>			
Electronic Indicator		Bailer	Diposable	Teflon #:			
Oil Water Interface Probe		_	Pump; type:				
Other (specify)		Other (specify					
Purge Cal	culation				CLA		
i uige can	Curation	casing	gallons per	Purged By:			
	al depth = 15.40	diameter	linear foot	┪	name		
1		0.75 in.	0.023	Purge Notes:			
	to water - 7.89	1 in.	0.04		Per like	odon	
linear feet	of water = 16.51	2 in,	0.17				
,**	ear foot x 17	i i	Ħ		· · · · ·	·	
		4 in.	0.67				
gallons pe	r casing = <u>1.79</u>	6 In.	1.5				
number of	casings x	other	calculate				
calculate	d purge = 5.24	1 cubic for	ot = 7.48 galions	Purged Dry?: N	Lateria V	Sameline Dala	
				Tulged Diy r. 1	Calcae 1	Sampling Dela	yr: Nicircle Y
time (24:0	3	pH (units)	EC (us @ 25° C)	temp (°F circle (C)	color	turbity	odor
1420		(driits)	(00@200)	(1 clicle(C)	(see below)	(NTU or see below	v) (see below)
		4 24	125			-	
volume 1 0933		6.34	120	12.7	6 man	mod.	Strne
volume 2 0 9 3 .		6.34	128	13.9	И	hory	u "
volume 3 0 3 3	J.50	G-34	124	13.7	e i	41	u
volume 4			<u> </u>				
complete							1
complete						219,0	
				•	brown, yellow cloudy, clear	light, trace	strong, moderate
Groundwater Sampling Information	on .	<u>-</u>			· · · · ·	(A)	
Sample Type	•	Sampling Equipment			•	in a	
Monitoring Well				Teflon #:			•
Extraction Well		Submersible Pum	p; type:				
Domestic Well Other (specify)		Sampling Port		•			
		Other (specify)					
Sample ID Date	The (04:00)	7					
MW-2	\				(6	•	
710 Z	0945			Sampled By:	<u></u>		
Dupe #	12:00	1			name		
# of Cont. Analyses	(check and circle)	Container/Size	Preservative	Sampling Notes:			•
TPH gas				camping Hotos.			
l 15			i				·
BTEX (82	260B)	40 ml	ہر				
3 MtBE (82	?70)		FICI				
Tenel Oxy	s, no MtBE (8270)	Vota 1					
l in	•		ي پوڙ				
Other (sp	ecify)					-	
VOCs (80	010 or 8240 or 8260B)	40 ml VOA	HCI .				
	•		- 1	<u>. 60, 6</u>		 /	
TPH dies	ei (8015M)	1 liter amber	none		· · · · · · · · · · · · · · · · · · ·		
Metals (8	010)	500 ml plastic	HNO₃		. 1	M	<u></u>
Other (sp	ecify)	•		Signature:	will		, <u></u>)

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 MW-3 900 Central Ave. KCE514 Well/Sample Point ID Project Address Project Number Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Bailer Teflon #: ___ Electronic Indicator Diposable Oil Water Interface Probe Submersible Pump; type: _ Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot total depth = 8.70 0.75 in. 0.023 Purge Notes: depth to water -1 in. 0.04 linear feet of water = 113 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 6 in. 1.5 number of casings X other calculate calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N drde Y Sampling Delay?: Name Y temp (°F circle(C) time gallons рΗ EC color turbity odor (us @ 25° C) (24:00)(units) (purged) (see below) (NTU or see below (see below) 0910 start 1.75 6.34 0913 171 14.6 moel Done volume 1 brown 3.75 6.34 181 15.7 0916 volume 2 5.75 34 u 0919 197 16.1 hux 1 volume 3 volume 4 complete brown, yellow cloudy, clear neavy, moderate strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Bailer Diposable Teflon #: Submersible Pump; type: _ Extraction Well Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) MW-3 022808 0930 Sampled By: Dupe# Analyses (check and circle) # of Cont. Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) (40 m HO 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 ain m Metals (8010) 500 ml plastic HNO₃ Other (specify) Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. * MW-4 KCE514 Well/Sample Point ID Alameda Alameda California County 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: dlameter linear foot total depth = 17,95 0.75 in. 0.023 Purge Notes: depth to water - 7.87 1 in. 0.04 linear feet of water = 10.14 2 in. 0.17 gallons per linear foot x .17 4 in. 0.67 gallons per casing = 1.726 in. 1.5 number of casings x 3 other calculate calculated purge = 5.17 *1 cubic foot = 7.48 gallons Purged Dry?: N drote Y Sampling Delay?: N circle Y time gallons turbity temp cofor odor (°F circle/°C) (24:00)(units) (us @ 25° C) (purged) (see below) (NTU or see below (see below) 0850 start 0 0853 1.75 6.35 418 huy. 16.9 brown volume 1 none 0855 3.50 6.34 367 16.7 volume 2 0857 6.35 i 11 **3**08 17.0 volume 3 ٤, volume 4 complete brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate 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) 022808 Q9 05 Sampled By: 'Dupe # # of Copt. Analyses (check to c Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) (40 ml 3 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 Metals (8010) with My 500 ml plastic HNO₃ Other (specify) Signature:

Field Data Sheet Groundwater Sampling Form 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. Project Address MW-5 Well/Sample Point ID KCE514 Project Numb Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Bailer Electronic Indicator Diposable Teflon #: _ Oil Water Interface Probe Submersible Pump; type: _ Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot пате total depth = 17.15 0.75 in. 0.023 Purge Notes: depth to water -1 in. 0.04 linear feet of water = 10,40 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 6 in. 1.5 number of casings X other calculate 5.30 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N drde Y Sampling Delay?: N circle Y gallons pН EÇ temp color turbity odor (24:00)(u s @ 25° C) (purged) (units) (°F circle/°C) (see below) (NTU or see below (see below) 0835 start 1.75 0838 6.35 365 Soun 15.8 hus volume 1 more 0840 3.50 6.35 298 16.7 4 volume 2 4 4 6.35 283 0842 5.50 4.8 4 volume 3 4 volume 4 complete brown, yellow cloudy, clear neavy, moderate strong, moderate

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)	 .
	7	
Sample ID Date Time (24:00)		(w Q
MW-5 022808 0850		Sampled By:
Dune # 40.00	`	name
Dupe # 12:00		Tidino
# of Cont. Analyses (check and circle)	Container/Size Preservative	Sampling Notes:
TPH gas (8260B)		
il 1 5	1 (10)	
BTEX (8260B)	40 m)	
MtBE (8270)	1	
Fuel Oxys, no MtBE (8270)	/9A	
Other (specify)		
	======================================	
VOCs (8010 or 8240 or 8260B)	40 ml VOA NCI	
	4 (94-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	
TPH diesel (8015M)	1 liter amber note	
Metals (8010)	500 ml plastic HNO ₃	
Other (specify)		Signature: With M
Other (specify) ₃₇		Signature:

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. Santa Cruz, CA 95062 (831) 475-8141 MW-6 KCE514 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 = 17.10 0.75 in. 0.023 Purge Notes: depth to water : 7.43 1 in. 0.04 linear feet of water = 9.67 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 6 in. 1.5 3 number of casings X other calculate 4.93 calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y gallons pΗ temp color turbity odor (24:00) (purged) (units) (us @ 25° C) (°F circle 🕝 (see below) (NTU or see below (see below) 0818 start 0820 1.50 6.34 volume 1 427 15.6 Ironn hy none 3.25 0822 6.35 16.1 401 volume 2 U 0824 5.00 6.35 355 16.6 volume 3 u volume 4 complete brown, yellow cloudy, clear heavy, moderate strong, moderate light, trace slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Weil Bailer Diposable Teflon #: _ Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) MW-6 022808 0835 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) 40 ml MtBE (8270) (F)CI Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HÇI TPH diesel (8015M) 1 liter amber none evil. M. Metals (8010) 500 ml plastic HNO₃ Other (specify) Signature:

	Sampling Forn	<u> </u>	·····	····			Te z	
Site Information						PRI	2560 Santa	Soquel Ave. #202
900 Central Ave	<u> </u>		RW-1 Well/Sample Point II	KCE514 Project Number	_	Z.	Santa	Cruz, CA 95062 331) 475-8141
1		Alomada	Well/Sample Point II	·				
Alameda City		Alameda County		California State		-	<u>10</u>	
Purge Information								
Water Level Equip	ment		Purge Equipment					
Electronic Indica	ntor		Bailer	Diposable	Teflon #:			
Oil Water Interfa	ice Probe		Submersible Pu	ımp; type: <u>لادت</u>	<u> </u>			
Other (specify) _			Other (specify)					
	Purge Calculation		casing	gallons per	Purged By:	(1)		-
			diameter	linear foot		name		_
	total depth	= <u>19.05</u>	0.75 in.	0.023	Purge Notes:			
	depth to water	7.22	1 in.	0.04				
	linear feet of water		ľ	Ħ			·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·	·····
			2 ln.	0.17			-	
	gallons per linear foot	_ 1	4 in.	0.67				
	gallons per casing	= <u>+.93</u>	6 in.	1.5				
	number of casings	x 3	other	calculate				
	calculated purge			= 7.48 gallons	Purged Dry?: N	Laberta V	Compline Doley	2. N V
<u> </u>					Turged Diyr. I	v circle 1	Sampling Delay	r. N circle 1
	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	(°F circle C)	color (see below)	turbity (NTU or see below	odor (see below)
	1006		(urits)	(20 @ 20 0)	() onloid	(see below)	(1410 of see peow	(see below)
start	1015	8.80	CUC	120	16.0		14.1.1	-1
volume 1		····	6.49	122_		Cloudy	lished	Stroy.
volume 2	1017	16.00	635	49	16.0	tt .	trace	ν,
volume 3	10.20	24.W	6.34	131.	15.9	clear	none	31414
volume 4								
complete								
		· · · · · · · · · · · · · · · · · · ·		•		brown, yellow	heavy, moderate	strong, moderate
Groundwater Samp	oling Information					cloudy, clear	light, trace	slight, none
Sample Type		Ş	Sampling Equipment					7,
Monitoring Well		_			Teffon #:			
Extraction Well		. 5	Submersible Pump					
Domestic Well	a		Sampling Port					
Other (specify)_	Recovery We	<i>"</i> "	Other (specify)					
								
Sample ID	Date	Time (24:00)				6		
RW-1	022808	1030			Sampled By:			
Dipe#		12:00				name		
# of Cont.	Analyses (check	and circle)	Container/Size	Preservative	Sampling Notes:			
	TPH gas (8260B							
1	15	''			1 <u>£</u>			
ļ <u>-</u>	BTEX (8260B)		40 m	7.1	-			
3	MtBE (8270)			H(c)				
	Fuel Oxys, no M	tBE (8270)	1 y6a/		. 1			
	Other (specify) _							<u> </u>
	Tokilor (opean)/							· · · · · · · · · · · · · · · · · · ·
	VOCs (8010 or 8	3240 or 8260B)	40 ml VOA	нсі				
	TPH diesel (801)	5M) A)	1 liter amber	none				
	Metals (8010)		· ·	HNO₃			·	
	177		•	و د د د در ر	Clamatica	ente	~/~	
<u> </u>	Other (specify)		1		Signature:			



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Former Holland Oil	Project #: KCE514					
Job Address: 900 Central Ave, Alameda.	Date: 022868					
Weather Conditions: clear	Personnel (45)					
Equipment on site: truck, sampling Equipment	l					
Arrival Time: 0730						
Departure Time: 10 4 5						
FIELD NOTES:						
·	. / 11-					
Aprepar for work, peruse site and	secureaccess to well.					
0745 Besin DTW measurements						
0810 Finish " begin punger						
0815 Besin Sampling. 1035 Finish " besin clean up and w						
1035 Finish in besin clean up and un	uber transfer					
6 soil drums Still at						
complaints fielded from ten	ant & neishbor					
·						
Signatu	ire: with					



Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

LAB	WORK ORDER NO

Compa	Nome: D KA a =	www.torrentiab.co	m	40000	a Maria de Argania			. (35.8 p.); 46.							\$22
Compar	ny Name: RNM TH	C			Locat	tion of Samplir	g: 9	OC.	ent	ral	A	~ ~~~	Alem	clo	
Address: 25 (0 Sugred Av. 4202				Purpo	Purpose: QGWS										
City: State: State: Zip Code: Six 2					Z Speci	Special Instructions / Comments: KCE514 (No M+BE)									-
Telephone. 8314750141 FAX: 8314758749						GNL1 INA TO(00102089									
REPORT TO: Matt Marry & SAMPLER: 63						P.O.# EMAIL: Matter vin scoon									
TURNAŖ	OUND TIME:	SAMPLE TYPI	E : -	REPORT	FORMAT:		- Gi			F	1950	Cata	C rvivi	1	
	rk Days	Nxt Day Storm Water Waste Water Ground Water Soil	Air Other	QC Lev EDF Excel /	vel IV	☐ EPA 8260B - Full List ☐ EPA 8260B - 8010 List ☐ THP gas ☐ BTEX ☐ Oxygenates ☐ MTBE	☐ THP Diesel ☐ Si-Gel ☐ Motor Oil	Pesticide - 8081	☐ PCB - 8082	Metals CAM - 17	S270 Full List			ANALYSIS REQUESTED)
LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		돌 폴	D B	<u>က</u>	Metals	827			REMARKS	
	MW-1 MW-2	022808/1005	<u>L</u>	3 /	HEL VOA	X				-					V.
		0945			-										5
	MW-3	0930								-					
	MW-4	0905								·					
11	MW-5	0850													
	NW-6	0835													
ir Tagasa	RW-1	V 1030		丁	1/			-							
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4					 : .			.,						300000	
		·													
WN	lished By: Print: Mill Red Will Red	Land Date:	808	Time:		Received By:	dish	P	Print:	·	ſ	Date:		Time:	
Relinqu 2	uished By: Print:	Date:		Time:		Received By:		P	rint:	y na sta	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z / 2 S	108	Time:	<u>}</u>
Were Sam NOTE: Sai Log In By:			(175 4) ECSAN		arrang	Method of Ship -ments are ma	de		√ • • • • • • • • • • • • • • • • • • •	A STATE OF THE STA	Sa		als intact?	Yes NO 1	 N/A _