

October 7, 2003  
Report 0278.R3  
RGA Job # PRD9114

Mr. Jerry Johnson  
Pacific Rolling Door Company  
15900 Worthley Drive  
San Lorenzo, CA 94580



**SUBJECT: SUBSURFACE INVESTIGATION REPORT (B40 to B53)**  
Pacific Rolling Door Company  
15900 Worthley Drive  
San Lorenzo, CA

Dear Mr. Johnson:

RGA Environmental, Inc. (RGA) is pleased to present this report documenting the drilling of borings B40 through B53 at the subject site. The drilling was performed on August 5, 2003. Borings B40, B41, and B42 were drilled to total depths of 15 feet below the ground surface and groundwater grab samples were collected from each of these boreholes. Soil borings B43 through B53 were hand augered with a total depth of exploration for these boreholes of one foot or 2.5 feet below the ground surface.

The boreholes were drilled to assess potential impacts to groundwater from solvents, petroleum hydrocarbons, and/or lead (B40 and B41), to investigate the presence of lead in groundwater based on concentrations of lead detected in soil samples during previous investigations (B42), and to further investigate concentrations of lead on the northeastern and southeastern edges of the yard to the east of the building (B41 and B43 through B53).

This work was performed in accordance with our Subsurface Investigation Work Plan (0278.W2) dated June 26, 2003, and our Work Plan Addendum dated July 7, 2003 for additional subsurface investigation of lead and Volatile Organic Chemicals (VOCs) in soil and groundwater at the subject site. Written approval of the work plan addendum was provided by the Alameda County Department of Environmental Health (ACDEH) in an email message dated July 22, 2003. In the approval letter, it was stipulated that soil and/or groundwater samples from B40, B41, and B53 be analyzed for Total Petroleum Hydrocarbons (TPH) as Gasoline and Diesel. All work was performed under the direct supervision of an appropriately registered professional.

A Site Location Map is attached as Figure 1, and a Site Plan Detail showing the soil boring locations and Total Threshold Limit Concentration (TTLC) lead results for soil samples is attached as Figure 2.

## **BACKGROUND**

The site consists of a warehouse with outdoor spray painting racks behind the warehouse in an industrial area of San Lorenzo, California. The site is bordered to the northeast by railroad tracks, to the southeast and northwest by industrial facilities, and to the southwest by Worthley Drive. Based on conversations with Mr. Jerry Duncan of Pacific Rolling Door (PRD), the subject site was farmland until approximately 1961. PRD occupied the site in approximately 1961 and constructed a warehouse for metal rolling door manufacturing. Spray-painting operations have been performed for a number of years on an outdoor paint rack and in an open shed located in the storage yard between the back of the building and the railroad tracks (see Figure 2, Site Plan). The spray painting operations have included lead-based paint.

In the 1980's, the back of the existing building was extended 100 feet towards the railroad tracks. It is our understanding that at that time, the paint racks and open shed were relocated from the back of the original building footprint approximately 100 feet towards the railroad tracks to their present location. The ground surface cover at the site consists of concrete on the southeast side of the building from the front to the back of the building. From the back of the building to the railroad tracks, the ground surface is covered with a gray clayey gravel cover measuring approximately 11 to 18 inches in thickness. Mr. Duncan stated that the area behind the building was initially bare earth, and that the gravel was periodically added over time to increase the gravel layer thickness. A chain link fence is present on the sides and the back of the property at the property line.

In 1995, a total of five soil samples designated as TB1 through TB5 were collected by RGA at a depth of 0.5 to 1.0 feet below the ground surface. The samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8010 and for CAM 17 metals. The sample results showed that VOCs were not detected and that lead was detected in all of the boreholes and zinc was detected in one of the boreholes at concentrations exceeding ten times their respective STLC values. No Waste Extraction Tests (WETs) were performed. Based on the sample results, RGA recommended additional analysis for lead, mercury and zinc. The sample collection locations are shown on Figure 2. Documentation of the investigation and sample results is presented in RGA's Preliminary Subsurface Investigation report dated May 1, 1995.

In 2002, PRD requested that RGA return to the site to further investigate the extent of metals in soil at the site. On July 18, 2002 a total of nine soil borings, designated as borings B6 through B14, were hand augered to further investigate concentrations of lead, zinc, and mercury at the site. The July 18, 2002 investigation of these metals in the vicinity of the paint rack identified only lead at concentrations of concern. The elevated concentrations of lead appear to be limited to the clayey gravel layer which covers the ground surface behind the facility building, and which measures between 11 and 18 inches in thickness. Analysis of soil samples collected beneath the clayey gravel at a depth of 2.0 feet showed that the elevated lead concentrations appear to be

limited to the clayey gravel. WET analysis on samples collected in the clayey gravel where the TTLC value exceeded ten times the lead STLC value showed that 3 of the 6 samples had concentrations which would cause the clayey gravel to be considered hazardous waste if removed from the site for disposal. Documentation of the investigation and sample results is presented in RGA's Subsurface Investigation Report 0278.R1 dated August 19, 2002.

Based on discussions with Ms. Eva Chu at the Alameda County Department of Environmental Health (ACDEH), it was determined that an investigation for the presence of lead, zinc, and VOCs needed to be performed in the vicinity of the former paint racks, now located beneath the 1984 building addition. In response to ACDEH requests, RGA prepared a Subsurface Investigation Work Plan dated March 18, 2003, and Work Plan Addendum dated March 31, 2003 for investigation beneath the building at the site (boreholes B15 through B23) and for further investigation of the extent of soil lead outside the building (boreholes B24 through B39). Written approval of the work plan and work plan addendum was provided by the Alameda County Department of Environmental Health (ACDEH) in a letter dated April 3, 2003.

Boreholes B15 through B39 were hand augered on April 8, 2003. The investigation of lead, zinc, and VOCs indoors identified only lead and VOCs at concentrations of concern in one borehole (B23), located near the west corner of the site building. The total lead results for the outdoor samples show that lead concentrations exceeded 50 ppm for all but one of the samples. WET analysis was performed for lead for 13 of the 16 outdoor samples. A total of 11 of the 13 WET analysis results exceeded the STLC value for lead of 5.0 ppm. Results are reported in RGA's Subsurface Investigation Report (0278.R2) dated May 16, 2003.

Following initial review of the results for samples collected from boreholes B15 through B39, Ms. Chu request additional investigation of lead and VOCs in groundwater, and suggested additional outdoor soil sampling to define the area requiring remediation in a telephone conversation on May 12, 2003. In response, RGA prepared Subsurface Investigation Work Plan (0278.W2) dated June 26, 2003, and our Work Plan Addendum dated July 7, 2003 for additional subsurface investigation of lead and VOCs in soil and groundwater at the subject site. Written approval of the work plan addendum was provided by the ACDEH in an email message dated July 22, 2003. Boreholes B40 through B53 were drilled on August 5, 2003.

#### FIELD ACTIVITIES

No permits were necessary for the soil borings. Prior to the beginning of field activities, a health and safety plan was prepared, Underground Service Alert was notified for underground utility location, and notification of the field date was provided to the ACDEH. In addition, a private utility locator had cleared the boring location inside the building.

### Soil Boring Oversight and Groundwater Grab Sample Collection

On August 5, 2003 boreholes designated as B40, B41, and B42 were drilled to groundwater, and 11 shallow soil borings, designated as B43 through B53 were hand augered to further investigate concentrations of lead, petroleum hydrocarbons, and VOCs at the subject site. The soil from all of the borings was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System. All of the soil from the soil borings drilled to groundwater (B40, B41, and B42) were evaluated with a 10.0 eV Photoionization Detector (PID) calibrated using a 100 ppm isobutylene standard.

The boreholes that were drilled for groundwater sample collection (B40, B41 and B42) were drilled by Vironex, Inc. of San Leandro, California using Geoprobe single wall macrocore direct push technology. The sample barrel was lined with 5-foot long cellulose acetate tubes. Continuous cores were collected from the boreholes in 5-foot intervals.

Borehole B40 was drilled inside the building through the building concrete floor. Relatively undisturbed soil samples were collected for laboratory analysis from borehole B41 at the intervals from 0.5 to 1.0 foot and 5.0 to 5.5 feet below the ground surface by cutting a 6-inch long portion of the cellulose acetate tube at the location corresponding to the sample collection depth. The ends of the tube were sequentially covered with aluminum foil and plastic endcaps. The tubes were then labeled and placed in a cooler pending delivery to the laboratory. Chain of custody documentation procedures were observed for all sample handling.

One soil sample was collected from each of boreholes B43 through B53 at the interval from 0.5 to 1.0 foot below the ground surface by placing soil from the hand auger directly into a brass tube. An additional sample was collected from borehole B53 at the interval from 2.0 to 2.5 feet below ground surface in the same manner as the shallow sample from borehole B53. Immediately after sample collection, the ends of the brass tube were sequentially covered with aluminum foil and plastic endcaps. The tubes were then labeled and placed in a cooler pending delivery to the laboratory. Chain of custody documentation procedures were observed for all sample handling.

All drilling, hand augering, and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole. Following completion of sample collection activities, boreholes B40, B41, and B42 were filled with neat cement grout, and boreholes B43 through B53 were filled with soil generated during drilling.

No staining or discoloration, no petroleum hydrocarbon or solvent odors, and no detectable PID readings were observed in any of the boreholes or soil samples, except for a reading of 6 ppm at a depth of 2 feet below the ground surface in borehole B40. A total of 14 soil samples were retained for laboratory analysis from both the indoor and the outdoor boring locations. The locations of the soil borings are shown on the attached Site Plan Detail, Figures 2.

## GEOLOGY AND HYDROGEOLOGY

Based on review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, the subject site is underlain by Holocene fine-grained alluvium (Qhaf) and bay mud (Qhbm). The fine-grained alluvium is described as being unconsolidated, plastic, moderately- to poorly-sorted silt and clay rich in organic material, which is seasonally saturated and irregularly bedded. The bay mud is described as unconsolidated, water-saturated, dark, plastic clay and silty clay rich in organic material, locally containing lenses and stringers of well-sorted silt and sand as well as beds of peat.

The subsurface materials encountered in boreholes B40, B41, and B42 consisted of a surface layer of concrete underlain by sandy gravel baserock to a depth of approximately one foot below grade in borehole B1, and sandy gravel fill to a depth of approximately one half foot in B41 and to a depth of approximately one foot below the ground surface in B42. These surface materials were underlain by gray silty clay or sandy silt to a depth of five feet below the ground surface, which was in turn underlain by Bay Mud the total depth explored of approximately 15.0 feet below the ground surface.

Boreholes B44, B47, B50 and B52 were hand augered to a total depth of 2.0, and borehole B53 was sampled to a total depth of 2.5 feet. The boreholes were hand augered to a total depth of 2.0 feet to verify the thickness of gravelly surface material at different portions of the site. The subsurface materials encountered in the boreholes consisted of sandy gravel to a depth of approximately one half foot below the ground surface, underlain by an approximately 1.5 feet thick layer of brown silty clay with gravel to the total depths explored. The shallow layer of sandy gravel encountered in each borehole is interpreted to be fill material.

Groundwater was initially encountered during drilling in boreholes B40 and B42 at depths of 14.8 and 14.0 feet below the ground surface, respectively. In borehole B41, groundwater was not present during drilling at a depth of 10.0 feet, but was present in the borehole at a depth of 7.9 feet below the ground surface upon removal of the drilling equipment for the 10.0 to 15.0 foot depth drilled interval. The measured depth to water in the boreholes at least one half hour after groundwater was initially encountered was 7.4 feet below the ground surface in boreholes B40 and B42, and 7.3 feet below the ground surface in borehole B41. The groundwater flow direction at the site is unknown, but based on local topography the groundwater flow direction is assumed to be toward San Francisco Bay to the southwest (see Figure 1).

## LABORATORY ANALYSIS

All samples were analyzed at McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a state-accredited hazardous waste testing laboratory. All of the soil samples and the water samples from boreholes B40 and B42 were analyzed for Total Threshold Limit Concentration (TTLC) values of lead using EPA Method 3050B in conjunction with EPA Method 7010. The groundwater samples from boreholes B40 and B41, as well as the two soil samples from borehole B41 and the shallow soil samples from boreholes B50 through B53 were analyzed for VOCs by EPA Method 8260 and for Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 5030B and modified EPA Method 8015C, and for Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Method 3510C and EPA Method 8015C. In addition, the soil sample from B53 at the 2.0-foot depth was analyzed for TPH-G and TPH-D. Review of the soil sample laboratory analytical results shows that total lead was detected in all of the samples at concentrations ranging from 3.3 to 350 ppm except for sample B53-2.0, where lead was not detected. Total lead was detected at concentrations exceeding 50 ppm in the samples from boreholes B43, B45, B46, B47, B49, B50 and B51. Lead was only detected in two samples at concentrations exceeding 255 ppm (B47-0.5 and B51-0.5 at concentrations of 350 and 320 ppm, respectively).

TPH-G was not detected in any of the soil samples, except for B53-0.5 at a concentration of 1.3 ppm. TPH-D was detected in soil samples B41-0.5, B50-0.5, B51-0.5, and B53-0.5 at concentrations ranging from 2.2 to 7.6 ppm. Review of the laboratory analytical report shows that the results reported as TPH-D are oil-range compounds. VOCs were not detected in any of the soil samples except for B52-0.5 where xylenes were detected at a concentration of 0.0057 ppm, and B53-0.5, where ethylbenzene and xylenes were detected at concentrations of 0.006 and 0.15 ppm, respectively. Laboratory analytical results for the soil samples are summarized in Table 1.

Review of the groundwater laboratory analytical results shows that total lead was not detected in any of the samples. TPH-G, TPH-D and VOCs were not detected in the groundwater sample from B41. In the groundwater sample from B40, TPH-G and TPH-D were detected at concentrations of 0.071 and 0.12 ppm, respectively. VOCs were not detected except for in the groundwater grab sample from B40, where ethylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and xylenes were detected at concentrations ranging from 0.0017 to 0.0094. Laboratory analytical results for the groundwater samples are summarized in Table 2.

The total lead (TTLC) laboratory analytical results for soil samples collected on August 5, 2003 are shown on Figure 2. The total lead (TTLC) laboratory analytical results for all soil samples collected from the site, including during previous investigations, are shown on Figure 3. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

## DISCUSSION AND RECOMMENDATIONS

Previous investigations at the site identified lead at concentrations of concern in portions of the yard to the east of the building, as well as lead and VOCs at concentrations of concern in one indoor borehole (B23). The work plan for the most recent investigation references a former Pacific Rolling Door employee, Jerry Duncan, who identified a potential former solvent disposal location outside a roll up door at the back of the building (B41, this investigation).

The total lead results for the soil samples collected on August 5, 2003 show that lead concentrations exceeded 255 ppm, the residential cleanup concentration, in only two samples (B47-0.5 and B51-0.5). The total lead (TTL) laboratory analytical results for soil samples collected on August 5, 2003 are shown on Figure 2, and for all investigations are shown on Figure 3. Review of Figure 3 shows that total lead concentrations exceeding 750 ppm (the commercial site cleanup concentration) appear to be limited to an area coincident with the back of the building and extending no more than 30 feet from the back of the building. Similarly, concentrations exceeding 255 ppm (the residential site cleanup concentration) appear to be limited to an area coincident with the back of the building and extending no more than 75 feet from the back of the building (approximately to the location of the paint racks shown on Figure 3). Two isolated areas (B47 and B51) also exceed the residential site cleanup standard of 255 ppm. Isoconcentration contours showing these areas are shown on Figure 3.

TPH-G was not detected in soil samples with one exception (B53-0.5 at a concentration of 1.3 ppm), and TPH-D was detected in four samples at concentrations ranging from 2.2 to 7.6 ppm. Review of the laboratory report shows the TPH-D results to be oil-range compounds. VOCs were not detected in soil samples with the exception of B52 and B53 at the 0.5-foot depth where ethylbenzene and xylenes were detected at concentrations ranging from 0.0057 to 0.15 ppm. The relatively low concentrations of petroleum hydrocarbons and related VOCs should not warrant remediation.

Lead was not detected in the water samples, and TPH-G, TPH-D and petroleum hydrocarbon-related VOCs were only detected in the groundwater grab sample from borehole B40. The low concentrations of the petroleum hydrocarbons and associated VOCs in B40 and the absence of petroleum hydrocarbons in B41 suggest that the extent of petroleum hydrocarbons does not extend further east than the east side of the building.

The relatively low concentrations of petroleum hydrocarbons in samples B41-0.5 and B53-0.5, the absence of petroleum hydrocarbons at the two-foot depth in borehole B53, and the absence of petroleum hydrocarbons in the groundwater grab sample from borehole B41 suggest that any historical dumping of solvents or petroleum hydrocarbons near the roll up door at the back of the building was limited in extent, and does not appear to have impacted groundwater. In addition,

the concentrations of petroleum hydrocarbons detected in groundwater do not exceed their respective Maximum Concentration Levels or Regional Water Quality Control Board standards for nuisance conditions, and therefore should not warrant remediation.

The presence of total lead concentrations exceeding the commercial cleanup concentration of 750 ppm will require some form of abatement to satisfy human health risk concerns. The presence of soluble lead concentrations exceeding 5.0 ppm will also require some form of abatement to satisfy water quality degradation concerns. A Site Plan showing the locations of sample results for soluble lead from a previous investigation are attached as Figure 4. Soluble lead concentrations exceeding 5.0 ppm are largely coincident with total lead concentrations exceeding the lead residential cleanup standard of 255 ppm. The absence of total lead in the water sample collected from borehole B42 (located near B39 where the highest total lead concentration at the site was encountered) suggests that soluble lead has not impacted groundwater at the site.

RGA recommends that the sandy or clayey gravel fill surface material (measuring approximately one half to one foot in thickness) in areas identified with total lead concentrations exceeding the commercial cleanup standard be either excavated and removed or capped with an impermeable surface. Similarly, areas with total lead concentrations exceeding residential cleanup standards should be excavated and removed or capped to address concerns for potential water quality degradation from surface fill material containing elevated soluble lead concentrations. Capping will result in a deed restriction for the property and the requirement for a cap maintenance plan and program.

Total lead concentrations in soil exceeding the residential cleanup standard will result in a deed restriction for the property. Total lead concentrations in soil exceeding the residential cleanup standard for lead were encountered in soil samples collected from beneath the building. To remediate the site so as to obtain case closure without a deed restriction will require removal of lead-impacted soil from beneath the building where total lead concentrations exceed the residential cleanup standard for lead.

#### LIMITATIONS

This report was prepared solely for the use of Pacific Rolling Door Company. The content and conclusions provided by RGA in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgement based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or



October 7, 2003  
Report 0278.R3  
RGA Job # PRD9114

other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. RGA is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgement based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

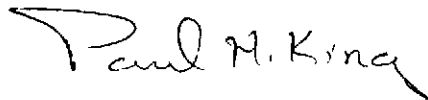
October 7, 2003  
Report 0278.R3  
RGA Job # PRD9114

Should you have any questions, please do not hesitate to contact us at (510) 547-7771.

Sincerely,



for  
Karin Schroeter  
Project Manager



Paul H. King  
California Registered Geologist #5901  
Expires: 12/31/03

Attachments: Table 1: Analytical Results Summary, Soil Samples  
Table 2: Analytical Results Summary, Groundwater Samples  
Site Location Map - Figure 1  
Site Plan Detail: Soil Sample Lead Results, August 5, 2003 - Figure 2  
Site Plan Detail: Soil Sample Lead Results, All Investigations - Figure 3  
Laboratory Reports  
Chain of Custody Documentation

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0278.R3

TABLE 1  
SUMMARY OF LABORATORY ANALYTICAL RESULTS  
SOIL SAMPLES  
(Samples Collected on August 5, 2003)

Sample No.	Total Lead	TPH-G	TPH-D	VOCs
B41-0.5	35	ND<1.0	7.6,a	ND
B41-5.0	3.3	ND<1.0	ND<1.0	ND
B43-0.5	110	--	--	--
B44-0.5	15	--	--	--
B45-0.5	140	--	--	--
B46-0.5	210	--	--	--
B47-0.5	350	--	--	--
B48-0.5	39	--	--	--
B49-0.5	71	--	--	--
B50-0.5	170	ND<1.0	5.8,a	ND
B51-0.5	320	ND<1.0	5.0,a	ND
B52-0.5	49	ND<1.0	ND<1.0	ND, except Xylenes = 0.0057
B53-0.5	38	1.3,b	2.2,a	ND, except Ethylbenzene = 0.006 Xylenes = 0.15
B53-2.0	ND<3.0	ND<1.0	ND<1.0	--

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

VOCs = Volatile Organic Compounds

ND = Not Detected

-- = Not Analyzed

a = Laboratory Analytical Report note: oil-range compounds significant.

b = Laboratory Analytical Report note: heavier gasoline-range compounds significant, possibly aged gasoline.

Results are in ppm (mg/kg), unless otherwise indicated.

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUNDWATER SAMPLES**  
 (Samples Collected on August 5, 2003)

Sample No.	Total Lead	TPH-G	TPH-D	VOCs
B40	ND<0.005	0.071,b,c	0.120,c	ND, except Ethylbenzene = 0.0017 1,2,4-Trimethylbenzene = 0.0094 1,3,5-Trimethylbenzene = 0.0054 Xylenes = 0.0091
B41	--	ND<0.05,c	ND<0.05,c	ND
B42	ND<0.005	--	--	--

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

VOCs = Volatile Organic Compounds

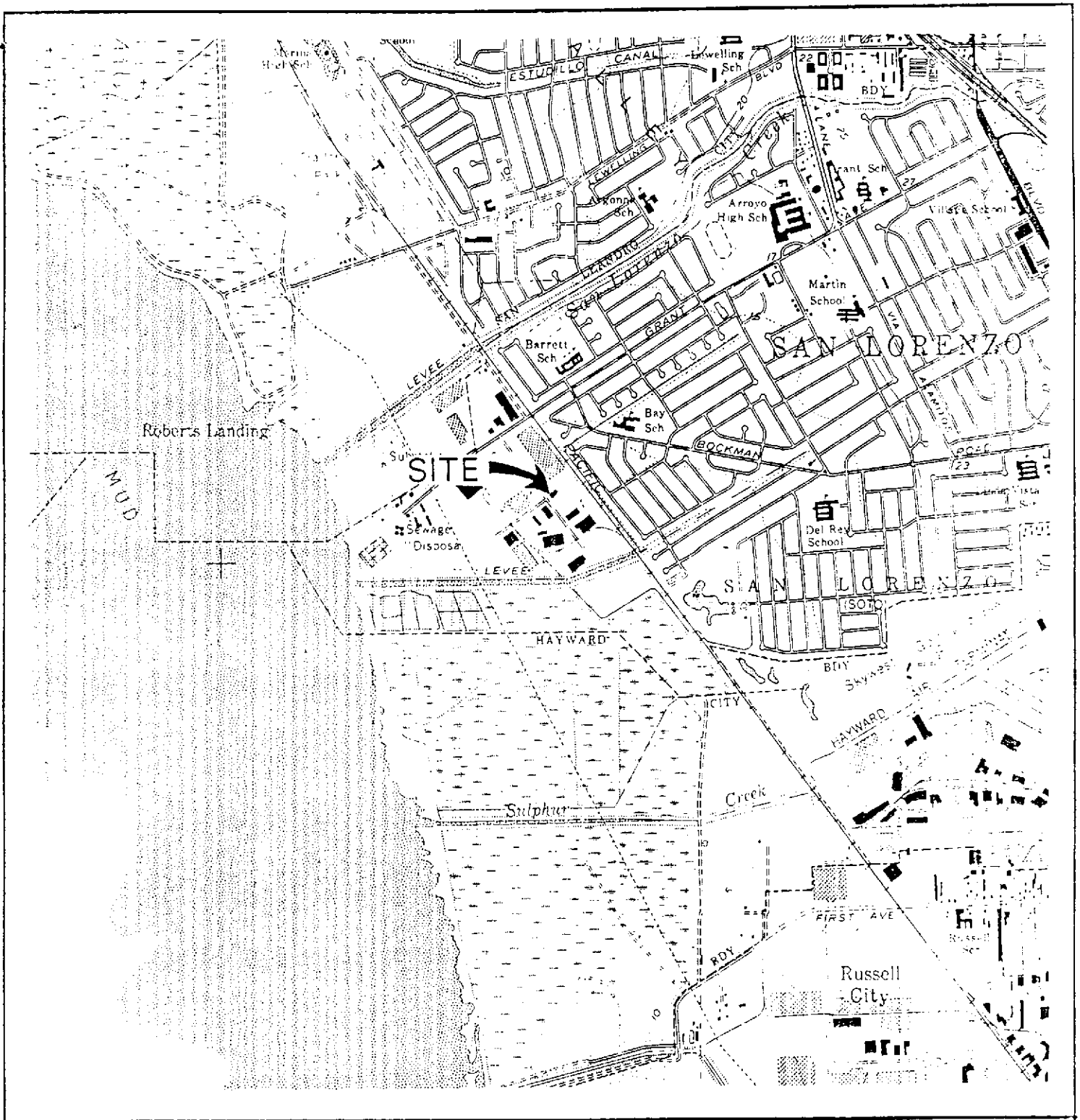
ND = Not Detected

-- = Not Analyzed

b = Laboratory Analytical Report note: heavier gasoline-range compounds significant, possibly aged gasoline.

c = Laboratory Analytical Report note: sample contained greater than 2% sediment by volume.

Results are in ppm (mg/L), unless otherwise indicated.

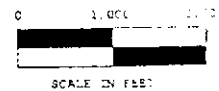


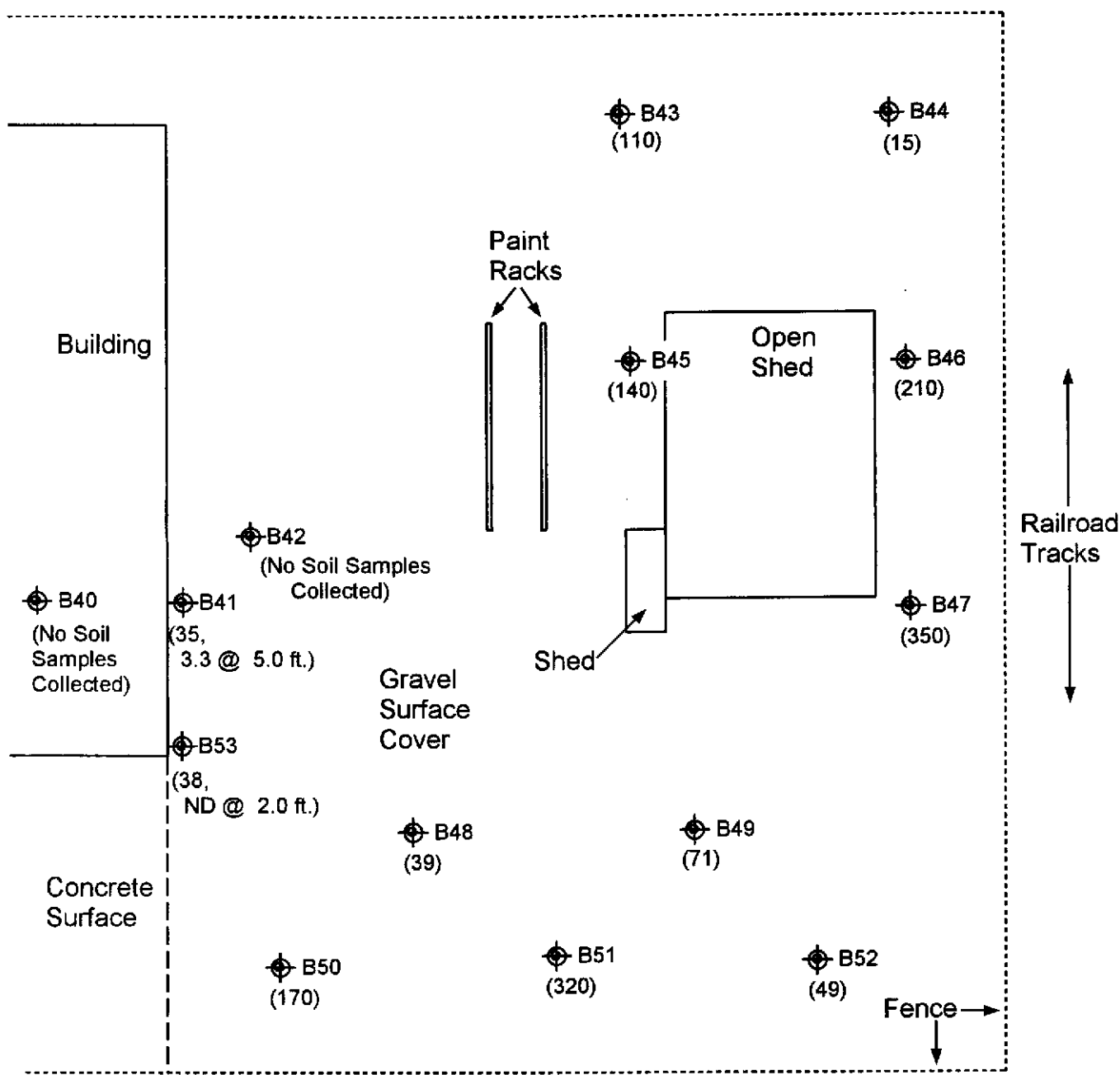
**FIGURE 1**  
**SITE LOCATION MAP**  
 Pacific Rolling Door  
 15900 Worthley Drive  
 San Lorenzo, California



Base Map From:  
 U.S. Geological Survey  
 San Leandro, California  
 7.5 Minute Quadrangle  
 Photorevised 1980

RGA Environmental, Inc.  
 4701 Doyle Street  
 Suite 14  
 Emeryville, CA 94608





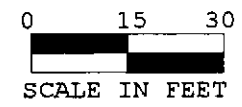
**LEGEND**  
 ⊕ Soil Boring Location (8/5/03 Investigation)  
 (350) TTLC Lead Concentration, ppm, at 0.5 feet below ground surface, unless otherwise noted.

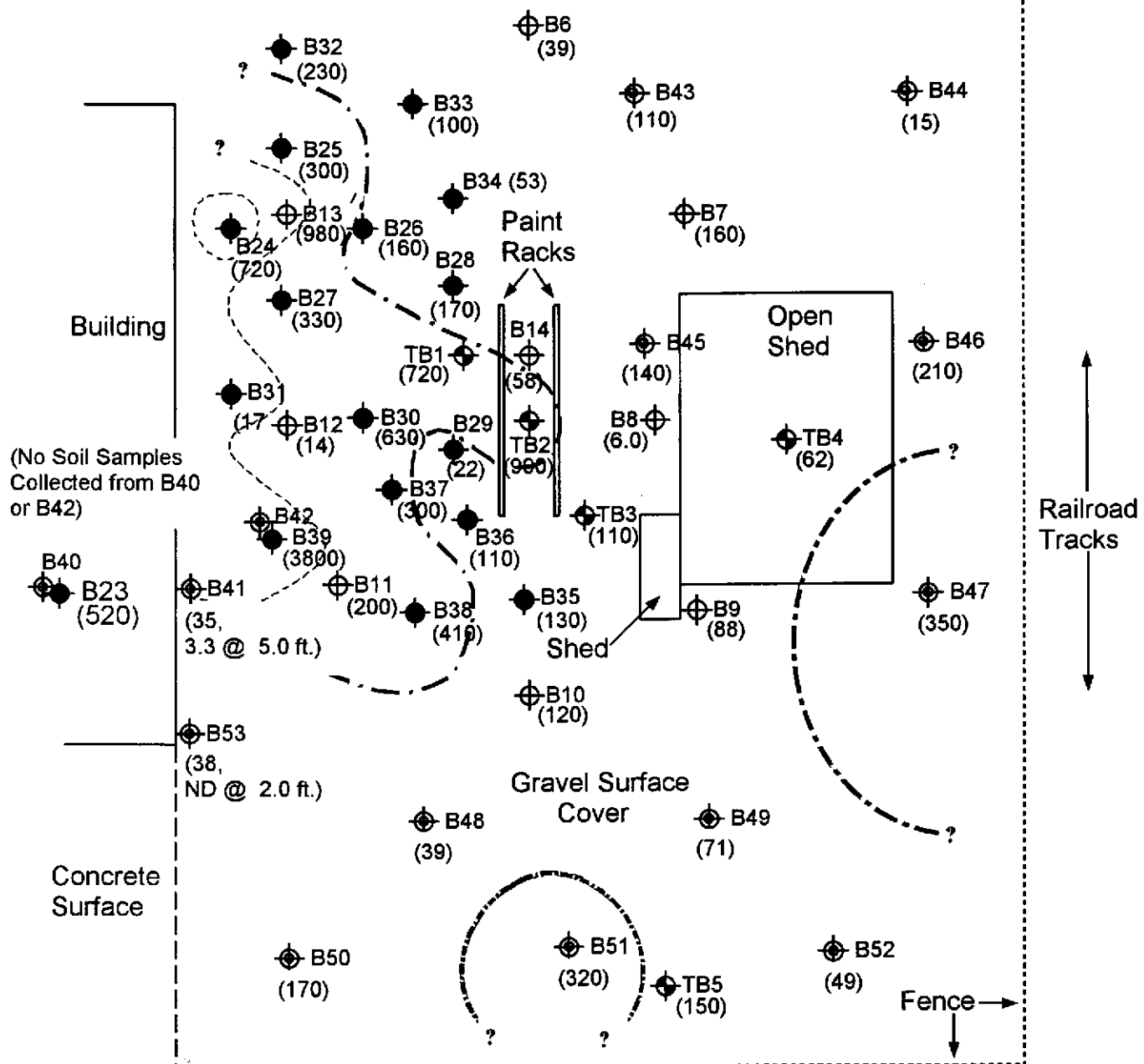
**FIGURE 2**  
**SITE PLAN DETAIL - TOTAL LEAD RESULTS**  
 Pacific Rolling Door  
 15900 Worthley Drive  
 San Lorenzo, California



Base Map From:  
 RGA Environmental  
 July, 2002

RGA Environmental, Inc.  
 4701 Doyle Street  
 Suite 14  
 Emeryville, CA 94608





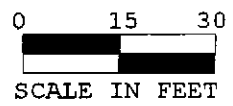
LEGEND	
⊕	Soil Boring Location (1995 Investigation)
⊕	Soil Boring Location (2002 Investigation)
●	Soil Boring Location (4/7/03 Investigation)
---	255 mg/Kg Total Lead Isoconcentration Contour
----	750 mg/Kg Total Lead Isoconcentration Contour
(999)	TTL Lead Concentration, ppm
⊕	Soil Boring Location (8/5/03 Investigation)

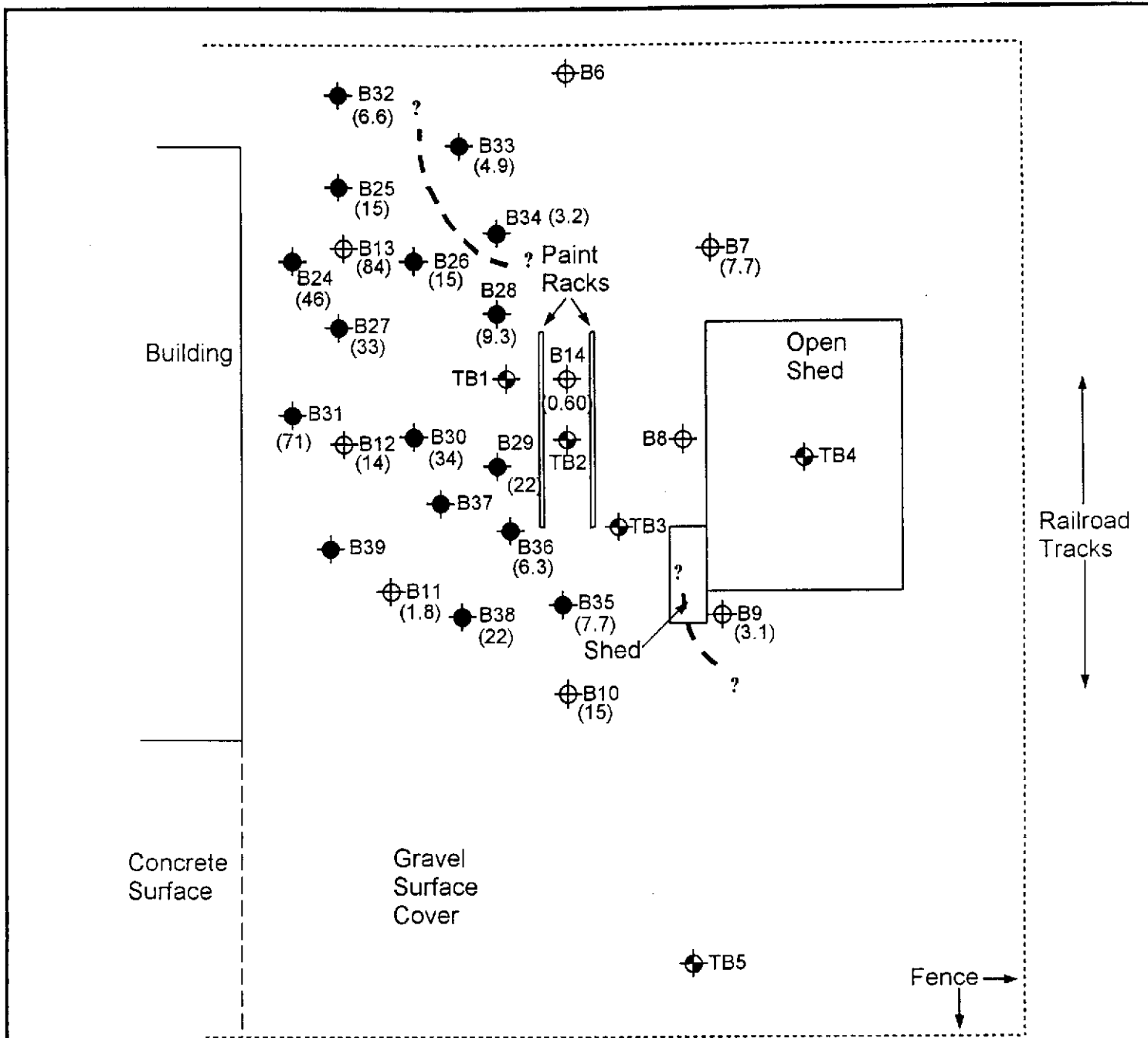
**FIGURE 3**  
**SITE PLAN DETAIL - OUTDOOR BORING LOCATIONS, TLC LEAD**  
 Pacific Rolling Door  
 15900 Worthley Drive  
 San Lorenzo, California



Base Map From:  
 RGA Environmental  
 July, 2002

RGA Environmental, Inc.  
 4701 Doyle Street  
 Suite 14  
 Emeryville, CA 94608





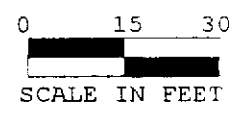
LEGEND	
	Soil Boring Location (2002 Investigation)
	Soil Boring Location (2003 Investigation)
	Soil Boring Location (1995 Investigation)
	5.0 mg/L Soluble Lead Isoconcentration Contour
	(99) STLC Soluble Lead Concentration, ppm

**FIGURE 4**  
**SITE PLAN DETAIL - OUTDOOR BORING LOCATIONS, STLC Lead**  
 Pacific Rolling Door  
 15900 Worthley Drive  
 San Lorenzo, California



Base Map From:  
 RGA Environmental  
 July, 2002

RGA Environmental, Inc.  
 4701 Doyle Street  
 Suite 14  
 Emeryville, CA 94608






BORING NO.: B40		PROJECT NO.: PRD 9114		PROJECT NAME: Pacific Rolling Door	
BORING LOCATION: SEE SITE PLAN DETAIL			ELEVATION AND DATUM: NONE		
DRILLING AGENCY: VIRONEX		DRILLER: JEFF		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: GEOPROBE 6600				8/5/03	8/5/03
COMPLETION DEPTH: 15.0 FEET		BEDROCK DEPTH: NONE ENCOUNTERED		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: 14.8 FEET		NO. OF SAMPLES: 1 WATER		WRW	PHK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	6 in. Concrete slab.	FILL	No Well Constructed			Borehole continuously cored with 2.5 inch OD 5 foot long core barrel lined with cellulose acetate sleeves.
	0.5 to 1.0 ft. Light gray sandy gravel (GW, gravel < 0.75 in. diam.), loose, dry, no PHC odor.	CL		6		
5	1.0 to 5.0 ft. Brownish gray silty clay (CL), soft, moist, no PHC odor.			0.0		
		▼		0.0		Groundwater measured at 7.4 ft., 10:23 am.
10	5.0 to 15.0 ft. Gray clay (Bay Mud), soft, wet, no PHC odor.	Bay Mud		0.0		Groundwater first encountered during drilling at 14.8 ft., 8:50 am, 8/5/03.
		▼		0.0		Borehole terminated at 15.0 feet.
15						Borehole grouted with neat cement grout 8/5/03.
20						Collected water sample with Teflon tubing and stainless steel foot valve.
25						
30						

BORING NO.: B41		PROJECT NO.: PRD 9114		PROJECT NAME: Pacific Rolling Door		
BORING LOCATION: SEE SITE PLAN DETAIL			ELEVATION AND DATUM: NONE			
DRILLING AGENCY: VIRONEX		DRILLER: JEFF		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: GEOPROBE 6600				8/5/03	8/5/03	
COMPLETION DEPTH: 15.0 FEET		BEDROCK DEPTH: NONE ENCOUNTERED		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 7.9 FEET		NO. OF SAMPLES: 1 WATER, 2 SOIL		WRW	PHK	
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	6 in. Light gray sandy gravel (GW, gravel < 1.5 in. diam.), med. dense, dry, no PHC odor.	FILL	No Well Constructed		6	Borehole continuously cored with 2.5 inch OD 5 foot long core barrel lined with cellulose acetate sleeves.
	1.0 to 5.0 ft. Light brown sandy silt (MH), med. stiff, slightly moist, no PHC odor.	MH			0.0	
5					0.0	Groundwater measured at 7.3 ft., 10:25 am, 8/5/03.
	5.0 to 15.0 ft. Gray clay (Bay Mud), soft, wet, no PHC odor.	 Bay Mud			0.0	No groundwater in borehole at 10-foot depth. Borehole drilled to 15.0 ft. Groundwater was present in borehole when drilling tools were removed from 15.0 foot depth.
10					0.0	First groundwater measured at 7.9 ft., 9:40 am, 8/5/03.
					0.0	Borehole terminated at 15.0 feet.
15						Borehole grouted with neat cement grout 8/5/03.
						Collected water sample with Teflon tubing and stainless steel foot valve.
20						
25						
30						

BORING NO.: B42		PROJECT NO.: PRD 9114		PROJECT NAME: Pacific Rolling Door		
BORING LOCATION: SEE SITE PLAN DETAIL			ELEVATION AND DATUM: NONE			
DRILLING AGENCY: VIRONEX		DRILLER: JEFF		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: GEOPROBE 6600				8/5/03	8/5/03	
COMPLETION DEPTH: 15.0 FEET		BEDROCK DEPTH: NONE ENCOUNTERED		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 14.0 FEET		NO. OF SAMPLES: 1 WATER		WRW	PHK	
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
0.5	0.5 to 1.0 ft. Light gray sandy gravel (gravel < 0.75 in. diam.), loose, dry, no PHC odor.	FILL	No Well Constructed		6	Borehole continuously cored with 2.5 inch OD 5 foot long core barrel lined with cellulose acetate sleeves.
1.0	1.0 to 5.0 ft. Brownish gray silty clay (CL), soft, moist, no PHC odor.	CL				
5		▼			0.0	Groundwater measured at 7.4 ft., approx. 11:00 am, 8/5/03.  Groundwater first encountered at 14.8 ft. depth, 8:50 am, 8/5/03.
10	5.0 to 15.0 ft. Gray clay (Bay Mud), soft, wet, no PHC odor.	Bay Mud			0.0	
15		▼			0.0	
20						Borehole grouted with neat cement grout 8/5/03.  Collected water sample with Teflon tubing and stainless steel foot valve.
25						
30						



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RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Analyzed: 08/07/03-08/12/03
		Date Extracted: 08/06/03

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\***

Extraction method: SW5030B Analytical methods: 8015Cm Work Order: 0308075

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	B41-0.5	S	ND	1	84.1
002A	B41-5.0	S	ND	1	91.5
010A	B50-0.5	S	ND	1	92.3
011A	B51-0.5	S	ND	1	81.4
012A	B52-0.5	S	ND	1	107
013A	B53-0.5	S	1.3,b	1	80.2
014A	B53-2.0	S	ND	1	94.6

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

Angela Rydelius, Lab Manager



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RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/09/03-08/13/03

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0308075


Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0308075-001A	B41-0.5	S	7.6,g,b	1	98.5
0308075-002A	B41-5.0	S	ND	1	97.5
0308075-010A	B50-0.5	S	5.8,g	1	96.6
0308075-011A	B51-0.5	S	5.0,g	1	99.1
0308075-012A	B52-0.5	S	ND	1	98.0
0308075-013A	B53-0.5	S	2.2,g	1	97.1
0308075-014A	B53-2.0	S	ND	1	93.0

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

 Angela Rydelius, Lab Manager



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 http://www.mcccampbell.com E-mail: main@mcccampbell.com

RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-001A
Client ID	B41-0.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	115	%SS2:	98.2
%SS3:	103		

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L. soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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RGA Environmental  4701 Doyle Street, Suite #14  Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-002A
Client ID	B41-5.0
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	114	%SS2:	96.9
%SS3:	105		

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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RGA Environmental  4701 Doyle Street, Suite #14  Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-010A
Client ID	B50-0.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	113	%SS2:	96.4
%SS3:	107		

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/siudge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.





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RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-011A
Client ID	B51-0.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	111	%SS2:	95.8
%SS3:	105		

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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RGA Environmental  4701 Doyle Street, Suite #14  Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-012A
Client ID	B52-0.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	5.0
Xylenes	5.7	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	109	%SS2:	94.5
%SS3:	103		

Comments:  
 \* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.  
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  
 # surrogate diluted out of range or surrogate coelutes with another peak.  
 h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/07/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308075

Lab ID	0308075-013A
Client ID	B53-0.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	6.0	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	150	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	108	%SS2:	95.0
%SS3:	109		

**Comments:**

\* water and vapor samples and all TCLP & SPI.P extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0308075

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 8099			Spiked Sample ID: 0308075-014A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	0.60	113	105	6.71	103	108	5.24	70	130
MTBE	ND	0.10	112	105	6.17	103	110	6.57	70	130
Benzene	ND	0.10	106	107	1.31	106	108	1.49	70	130
Toluene	ND	0.10	106	106	0	105	107	2.07	70	130
Ethylbenzene	ND	0.10	108	110	1.65	109	111	1.89	70	130
Xylenes	ND	0.30	110	110	0	110	110	0	70	130
%SS:	94.6	100	114	121	6.12	109	122	10.8	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0308075

EPA Method: SW8015C		Extraction: SW3550C		BatchID: 8093		Spiked Sample ID: 0308075-014A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	ND	150	111	111	0	110	110	0	70	130
%SS:	93.0	100	108	108	0	109	110	0.892	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8260B

Matrix: S

WorkOrder: 0308075

EPA Method: SW8260B	Extraction: SW5030B		BatchID: 8090			Spiked Sample ID: 030805B-004A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	50	116	115	1.23	113	114	0.902	70	130
Chlorobenzene	ND	50	115	116	1.29	115	115	0	70	130
1,1-Dichloroethene	ND	50	84.3	81	4.07	81.5	82.6	1.33	70	130
Methyl-t-butyl ether (MTBE)	ND	50	115	112	2.75	109	110	0.863	70	130
Toluene	ND	50	116	120	3.66	117	118	0.769	70	130
Trichloroethene	ND	50	99.8	97.6	2.17	97.3	96.7	0.605	70	130
%SS1:	90.7	100	107	102	4.06	105	104	1.13	70	130
%SS2:	96.8	100	98.8	101	1.99	99	99.5	0.449	70	130
%SS3:	96.2	100	98	102	4.39	98.1	97.3	0.910	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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### QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0308075

EPA Method: SW7010		Extraction: SW3050B			BatchID: 8081		Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	500	N/A	N/A	N/A	101	100	0.790	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$$

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0308075

EPA Method: SW7010		Extraction: SW3050B		BatchID: 8098			Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	500	N/A	N/A	N/A	85.9	86.5	0.596	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.





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030807S

Page 1 of 2

# CHAIN OF CUSTODY

Project Number: PRD 9114		Project Name: Pacific Rolling Door		No. of Containers:	Analysis(es): Total Lead TPH Gas + Vese VOCs by 8260	Preservatives	Remarks	
Sampled By: (Printed and Signature): Wilhelm Welzenbach		Signature: <i>Wilhelm Welzenbach</i>						
Sample Number	Date	Time	Type	Sample Location				
<del>B40</del>	<del>8/6/03</del>		<del>water</del>		<del>1</del>	<del>X</del>	<del>X</del>	
<del>B41</del>			<del>water</del>		<del>1</del>	<del>X</del>	<del>X</del>	
B41-0.5			soil		1	X	X	
B41-5.0			soil		1	X	X	
<del>B42</del>			<del>water</del>		<del>1</del>	<del>X</del>	<del>X</del>	
B43-0.5			soil		1	X		
B44-0.5								
B45-0.5								
B46-0.5								
B47-0.5								
B48-0.5								
B49-0.5								
Relinquished By: (Signature): <i>Wilhelm Welzenbach</i>		Date: 8/6/03	Time: 0925	Received By: (Signature): <i>Tim Perry 298</i>		Total No. of Samples: 17	Total No. of Containers: 30	Laboratory: McCampbell Analytical
Relinquished By: (Signature): <i>Tim Perry 298</i>		Date: 8/6/03	Time: 1615	Received By: (Signature): <i>Melissa Valler</i>		Laboratory Contact: Angela Rydellus		Laboratory Phone Number: 925-798-1620
Relinquished By: (Signature):		Date:	Time:	Received For Laboratory By: (Signature):		Sample Analysis Request Sheet Attached ( ) Yes <input checked="" type="checkbox"/> No		

Comments: VOAs preserved w HCl. Please filter and preserve the water in the 500ml poly bottles (samples B40 and B42) prior to analysis.

IOEP <input checked="" type="checkbox"/>	PRESERVATION <input checked="" type="checkbox"/>	VOA <input checked="" type="checkbox"/>	ORG <input type="checkbox"/>	METALS <input type="checkbox"/>	OTHER <input type="checkbox"/>
GOOD CONDITION <input checked="" type="checkbox"/>	APPROPRIATE CONTAINERS <input checked="" type="checkbox"/>				
LEAD SPACE ABSENT <input checked="" type="checkbox"/>	PRESERVED IN LAB <input checked="" type="checkbox"/>				
DECHLORINATED IN LAB <input type="checkbox"/>					



ENVIRONMENTAL INC.

4701 DOYLE ST. #14  
FAX: (510) 547-1983

TEL: (510) 547-7771  
EMERYVILLE, CA 94608

0304075

Page 2 of 2.

# CHAIN OF CUSTODY

Project Number: <b>PRD 9114</b>		Project Name: <b>Pacific Rolling Door</b>		No. of Containers:	Analysis(es): <b>Total Lead</b> <b>VOCs by 8260</b> <b>TPH Gas These</b>					Preservatives	Remarks
Sampled By: (Printed and Signature): <b>Wilhelm Welzenbach</b>		Signature: <b>Wilhelm Welzenbach</b>									
Sample Number	Date	Time	Type	Sample Location							
B50-0.5	8/5/03		soil		1	X	X	X		X	Normal Turnaround
B51-0.5	↓		↓		↓	↓	X	X		↓	
B52-0.5	↓		↓		↓	↓	X	X		↓	
B53-0.5	↓		↓		↓	↓	X	X		↓	
B53-2.0	↓		↓		↓	↓				↓	
Relinquished By: (Signature): <b>Wilhelm Welzenbach</b>		Date: 8/6/03	Time: 0925	Received By: (Signature): <b>Jim Ferry 298</b>		Total No. of Samples: 17	Total No. of Containers: 30	Laboratory: <b>McCampbell Analytical</b>			
Relinquished By: (Signature): <b>Jim Ferry 298</b>		Date: 8/6/03	Time: 1615	Received By: (Signature):		Laboratory Contact: <b>Angela Rydelius</b>		Laboratory Phone Number: 925-798-1620			
Relinquished By: (Signature):		Date:	Time:	Received For Laboratory By: (Signature):		Sample Analysis Request Sheet Attached ( ) Yes (X) No					

Comments:

ICRA <input checked="" type="checkbox"/>	PRESERVATION <input checked="" type="checkbox"/>	VOC <input checked="" type="checkbox"/>	ORG <input checked="" type="checkbox"/>	METALS <input checked="" type="checkbox"/>	OTHER <input checked="" type="checkbox"/>
GOOD CONDITION <input checked="" type="checkbox"/>	APPROPRIATE CONTAINERS <input checked="" type="checkbox"/>				
FIELD SPACES ASSENT <input checked="" type="checkbox"/>					
FIELD COLLECTED IN LAB <input checked="" type="checkbox"/>					

# McC Campbell Analytical Inc.



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0308075

**Client:**

RGA Environmental  
 4701 Doyle Street, Suite #14  
 Emeryville, CA 94608-2947

TEL: (510) 547-7771  
 FAX: (510) 547-1983  
 ProjectNo: #PRD 9114; Pacific Rolling Door  
 PO:

Date Received: 8/6/03  
 Date Printed: 8/6/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests			
					SW7010	SW8015C	V8021B/8015C	SW8260B
0308075-001	B41-0.5	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-002	B41-5.0	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-003	B43-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-004	B44-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-005	B45-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-006	B46-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-007	B47-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-008	B48-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-009	B49-0.5	Soil	8/5/03	<input type="checkbox"/>	A			
0308075-010	B50-0.5	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-011	B51-0.5	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-012	B52-0.5	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-013	B53-0.5	Soil	8/5/03	<input type="checkbox"/>	A	A	A	A
0308075-014	B53-2.0	Soil	8/5/03	<input type="checkbox"/>	A	A	A	

Prepared by: Melissa Valles

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



**McC Campbell Analytical Inc.**

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RGA Environmental  
 4701 Doyle Street, Suite #14  
 Emeryville, CA 94608-2947

Client Project ID: #PRD 9114; Pacific  
 Rolling Door

Date Sampled: 08/05/03

Date Received: 08/06/03

Client Contact: Paul King

Date Extracted: 08/07/03-08/09/03

Client P.O.:

Date Analyzed: 08/07/03-08/09/03

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\***

Extraction method: SW5030B

Analytical methods: 8015Cm

Work Order: 0308073

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001B	B40	W	71,b,i	1	101
002A	B41	W	ND,i	1	100

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 +The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

*[Signature]* Angela Rydelius, Lab Manager



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RGA Environmental  4701 Doyle Street, Suite #14  Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/06/03
		Date Analyzed: 08/09/03

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0308073

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0308073-001B	B40	W	120,b,i	1	101
0308073-002A	B41	W	ND,i	1	102


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



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 http://www.mcccampbell.com E-mail: main@mcccampbell.com

RGA Environmental 4701 Doyle Street, Suite #14 Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/08/03
		Date Analyzed: 08/08/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308073

Lab ID	0308073-001C
Client ID	B40
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<8.0	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	1.7	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	9.4	1.0	0.5	1,3,5-Trimethylbenzene	5.4	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	9.1	1.0	0.5				

**Surrogate Recoveries (%)**

%SS1:	113	%SS2:	94.9
%SS3:	99.4		

Comments: i

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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RGA Environmental  4701 Doyle Street, Suite #14  Emeryville, CA 94608-2947	Client Project ID: #PRD 9114; Pacific Rolling Door	Date Sampled: 08/05/03
	Client Contact: Paul King	Date Received: 08/06/03
	Client P.O.:	Date Extracted: 08/08/03
		Date Analyzed: 08/08/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308073

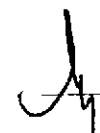
Lab ID	0308073-002B
Client ID	B41
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	1.0
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	0.5
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

**Surrogate Recoveries (%)**

%SS1:	113	%SS2:	99.4
%SS3:	109		

Comments: i  
 \* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.  
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  
 # surrogate diluted out of range or surrogate coelutes with another peak.  
 h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

 Angela Rydelius, Lab Manager



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## QC SUMMARY REPORT FOR E200.9

Matrix: W

WorkOrder: 0308073

EPA Method: E200.9		Extraction: E200.9			BatchID: 8073		Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	0.010	N/A	N/A	N/A	101	89.6	11.5	70	130
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:            NONE</p>										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.