
**Groundwater Monitoring Report
July to December 2003**

**64th Street Properties
Emeryville, California**

Prepared for:

**SIMEON Commercial Properties
San Francisco, California**

Prepared by:

**Erler & Kalinowski, Inc.
(EKI 990016.05)**

26 August 2003

**Erler &
Kalinowski, Inc.**

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*Alameda County
SEP 02 2003
Environmental Health*

26 August 2003

Betty Graham
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Susan Hugo
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Alameda County
SEP 02 2003
Environmental Health

Subject: Groundwater Monitoring Report
July to December 2003
64th Street Properties, Emeryville, California
(EKI 990016.05)

Dear Ms. Graham and Ms. Hugo:

On behalf of SIMEON Commercial Properties, Erler & Kalinowski, Inc. is pleased to present this report summarizing results of groundwater monitoring activities conducted at the 64th Street Properties located at 1480 64th Street, Emeryville, California on 7 August 2003. Please call with any questions or comments (650) 292-9100.

Very truly yours,

ERLER & KALINOWSKI, INC.



Hae Won Lee
Staff Engineer



Derby Davidson, P.E.
Project Engineer

cc: Pierson Forbes, SIMEON Commercial Properties
Maurice Kaufman, City of Emeryville

**Groundwater Monitoring Report
 July to December 2003
 64th Street Properties
 Emeryville, California**

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1.0 INTRODUCTION

On behalf of SIMEON Commercial Properties ("SIMEON"), Erler & Kalinowski, Inc. ("EKI") is pleased to present this report summarizing the results of groundwater monitoring activities conducted at the 64th Street Properties located at 1480 64th Street in Emeryville, California ("Site") on 7 August 2003. The location of the Site is shown on Figure 1.

Groundwater monitoring at the Site was conducted in accordance with the *Final Risk Management Plan for the 64th Street Properties*, dated 30 August 1999 ("RMP"). The RMP was approved by the California Regional Water Quality Control Board, San Francisco Bay Region ("RWQCB"), and the Alameda County Department of Environmental Health ("ACDEH") in a letter dated 15 October 1999. The RMP requires the measurement of water levels and the collection of groundwater samples from four monitoring wells (i.e., SMW-1, SMW-2, SMW-3, and SMW-4) installed at the Site. The approximate locations of these wells are shown on Figure 2.

The groundwater monitoring specified in the RMP is required to be performed quarterly for the first year, semi-annually for the second year, and annually thereafter. As recommended in the July to December 2002 Groundwater Monitoring Report, monitoring is being performed on a semi-annual basis to verify that downgradient TEPH concentrations remain stable. All groundwater samples are required to be analyzed for total extractable petroleum hydrocarbons as diesel ("TEPH"). The groundwater samples are also required to be analyzed for volatile organic compounds ("VOCs") on an annual basis. Data from the monitoring events are reported to the RWQCB and the ACDEH.

The objectives of the groundwater monitoring program established in the RMP are to monitor TEPH and VOC concentrations in groundwater at the perimeter and downgradient of the Site and to verify the stability or decline of TEPH concentrations over time. Groundwater samples collected from the four monitoring wells on 7 August 2003 were analyzed for TEPH. Groundwater samples for VOC analysis were inadvertently not collected for the 2003 year. Samples will be collected for VOC analysis in the next normally scheduled sampling event, which is February 2004. The most recent VOC analyses were conducted on 5 February 2002. For VOC data for the 2002 year, please refer to the January to June 2002 Groundwater Monitoring Report dated 11 October 2002 and prepared by EKI on behalf of SIMEON.

2.0 GROUNDWATER MONITORING

Per the RMP, monitoring at the Site includes measuring groundwater levels and collecting groundwater samples from Site monitoring wells SMW-1 through SMW-4 (Figure 2). EKI conducted monitoring activities at the Site on 7 August 2003 as described below.

2.1 Water Level Monitoring

Prior to sampling, EKI measured water levels in each well using a pre-cleaned electronic sounding tape. Water level data obtained by EKI were used to assess the magnitude and direction of the hydraulic gradient in the shallow water-bearing zone at the Site (see Section 3.1 below). Historic measured water level data and water level data collected on 7 August 2003 are summarized in Table 1.

2.2 Groundwater Sampling and Laboratory Analyses

Prior to sampling, groundwater was purged until at least three of four parameters (temperature, specific conductance, pH, and turbidity) stabilized. Approximately three well-casing volumes of groundwater were removed from each well. Groundwater samples were collected from wells SMW-1, SMW-2, SMW-3, and SMW-4. Copies of groundwater purge sample forms are included in Appendix A.

Groundwater samples from the wells were collected using PVC bailers suspended by nylon string. Separate disposable PVC bailers were used at each well. Well SMW-4, which contains a thin layer of floating product (i.e., a sheen less than 0.03 feet), was sampled through a stilling tube.

Rinsate from equipment cleaning and purged groundwater from the wells was contained and stored on-Site in 55-gallon drums. SIMEON will dispose of the rinse water and purged groundwater in accordance with applicable laws and regulations.

Groundwater samples were labeled, logged on a chain-of-custody document, and packed on ice in a chilled ice chest for transport to the laboratory. Samples were analyzed by Curtis & Tompkins, Ltd., of Emeryville, California, for TEPH using EPA Method 8015M with silica gel cleanup. Analytical results for the 7 August 2003 monitoring event are summarized in Table 2 and are shown on Figure 3. Copies of laboratory reports from these groundwater analyses are included in Appendix B. Groundwater analytical results are discussed in Section 3.2 below.

3.0 EVALUATION OF HYDRAULIC GRADIENT AND GROUNDWATER SAMPLING RESULTS

This section summarizes (a) hydraulic groundwater gradient information obtained at the Site on 7 August 2003, (b) groundwater analytical results from on-site groundwater monitoring conducted on 7 August 2003, and (c) quality control results.

3.1 Hydraulic Gradient

The groundwater potentiometric surface contour map for the Site shallow water-bearing zone shown on Figure 2 is based on water levels measured in wells SMW-1, SMW-2, SMW-3, and SMW-4 on 7 August 2003. As shown on Figure 2, the direction of the hydraulic gradient in the shallow water-bearing zone is westerly across the southwestern portion of the Site. The estimated magnitude of the hydraulic gradient across the Site is 0.011 ft/ft. This groundwater gradient is consistent with prior monitoring events.

3.2 Groundwater Analytical Results

Current and historic TEPH data detected in groundwater samples collected from wells SMW-1, SMW-2, SMW-3, and SMW-4 are summarized in Table 2 and on Figure 3.

TEPH was not detected at a concentration above 50 micrograms per liter ("ug/L") in the groundwater samples collected on 7 August 2003 from downgradient monitoring wells SMW-1, SMW-2, and SMW-3. TEPH was detected at a concentration of 1,100 ug/L in the groundwater sample collected from monitoring well SMW-4. As indicated above, the groundwater sample from monitoring well SMW-4 was collected through a stilling tube because of the presence of a thin layer of floating product. Although the measured TEPH concentration from well SMW-4 should represent levels dissolved in groundwater on the southern property boundary, it is possible that free-phase hydrocarbons became entrained in the sample collected from well SMW-4.

As shown in Table 2 and on Figure 3, the TEPH data from the 7 August 2003 monitoring event for monitoring wells SMW-1, SMW-2, and SMW-3 are generally consistent with historic Site data. The TEPH concentration that was detected in groundwater from well SMW-4 was similar to the concentrations detected in February 2002, August 2002, and February 2003, but an order of magnitude greater than concentrations found in the preceding four groundwater sampling events. Although the concentrations detected in samples collected from well SMW-4 in 2002 and 2003 are significantly elevated compared to 2001 data, they are consistent with concentrations detected in site groundwater samples collected prior to redevelopment (see Figure 3). Thus, 2001 data may reflect transient conditions, while 2002 and 2003 data may reflect long-term norms. As noted above, the apparent increase in TEPH concentrations at well SMW-4 have not resulted in an increase in TEPH concentrations downgradient of the site (i.e. in wells SMW-1 through SMW-3). Monitoring will continue on a semi-annual basis to verify that downgradient groundwater concentrations remain stable.

3.3 Quality Control Results

All QA/QC analytical results, including laboratory blanks, blank spikes, and surrogates were within (a) generally accepted laboratory QA/QC protocols and (b) requirements of the laboratory's internal quality control procedures. The data collected during the 7 August 2003 monitoring event are considered acceptable and useable for their intended purpose.

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA

64th Street Properties, Emeryville, California

Well Number	Date	Well Elevation (1) (Feet Above MSL)	Depth to Water (Feet)	Groundwater Elevation (Feet Above MSL)
SMW-1	1-Feb-01	12.21	5.68	6.53
	24-May-01	12.21	5.67	6.54
	7-Aug-01	12.21	5.92	6.29
	2-Nov-01	12.21	5.78	6.43
	5-Feb-02	12.21	6.12	6.09
	21-Aug-02	12.21	5.95	6.26
	6-Feb-03	12.21	6.09	6.12
	7-Aug-03	12.21	6.61	5.60
SMW-2	1-Feb-01	11.54	4.67	6.87
	24-May-01	11.54	4.92	6.62
	7-Aug-01	11.54	5.35	6.19
	2-Nov-01	11.54	5.08	6.46
	5-Feb-02	11.54	5.25	6.29
	21-Aug-02	11.54	5.23	6.31
	6-Feb-03	11.54	5.36	6.18
	7-Aug-03	11.54	5.92	5.62
SMW-3	1-Feb-01	12.31	5.60	6.71
	24-May-01	12.31	5.63	6.68
	7-Aug-01	12.31	6.10	6.21
	2-Nov-01	12.31	5.95	6.36
	5-Feb-02	12.31	6.11	6.20
	21-Aug-02	12.31	6.05	6.26
	6-Feb-03	12.31	6.20	6.11
	7-Aug-03	12.31	6.81	5.50
SMW-4	1-Feb-01	12.25	2.41 (2)	9.84 (2)
	24-May-01	12.25	2.43 (2)	9.82 (2)
	7-Aug-01	12.25	2.20 (2)	10.05 (2)
	2-Nov-01	12.25	2.10 (2)	10.15 (2)
	5-Feb-02	12.25	2.43 (2)	9.82 (2)
	21-Aug-02	12.25	2.23 (2)	10.02 (2)
	6-Feb-03	12.25	2.43 (2)	9.82 (2)
	7-Aug-03	12.25	2.54 (2)	9.71 (2)

Notes:

- (1) Surveyed elevation from mark on the top of the PVC casing; feet above mean sea level.
- (2) A thin layer of floating product was observed in this well. The floating product thickness was less than 0.03 feet.

TABLE 2
SUMMARY OF GROUNDWATER
CHEMICAL ANALYTICAL DATA - TEPH

64th Street Properties, Emeryville, California

Date	TEPH (ug/L) (1)			
	SMW-1	SMW-2	SMW-3	SMW-4
1-Feb-01	<50	<50	140	360
24-May-01	<50	<50	74	300
7-Aug-01	<50	<50	140	280
2-Nov-01	<50	<50	<50	260
5-Feb-02	<50	84	100	3,600
21-Aug-02	<50	69	<50	8,000
6-Feb-03	<50	<50	<50	2,100
7-Aug-03	<50	<50	<50	1,100

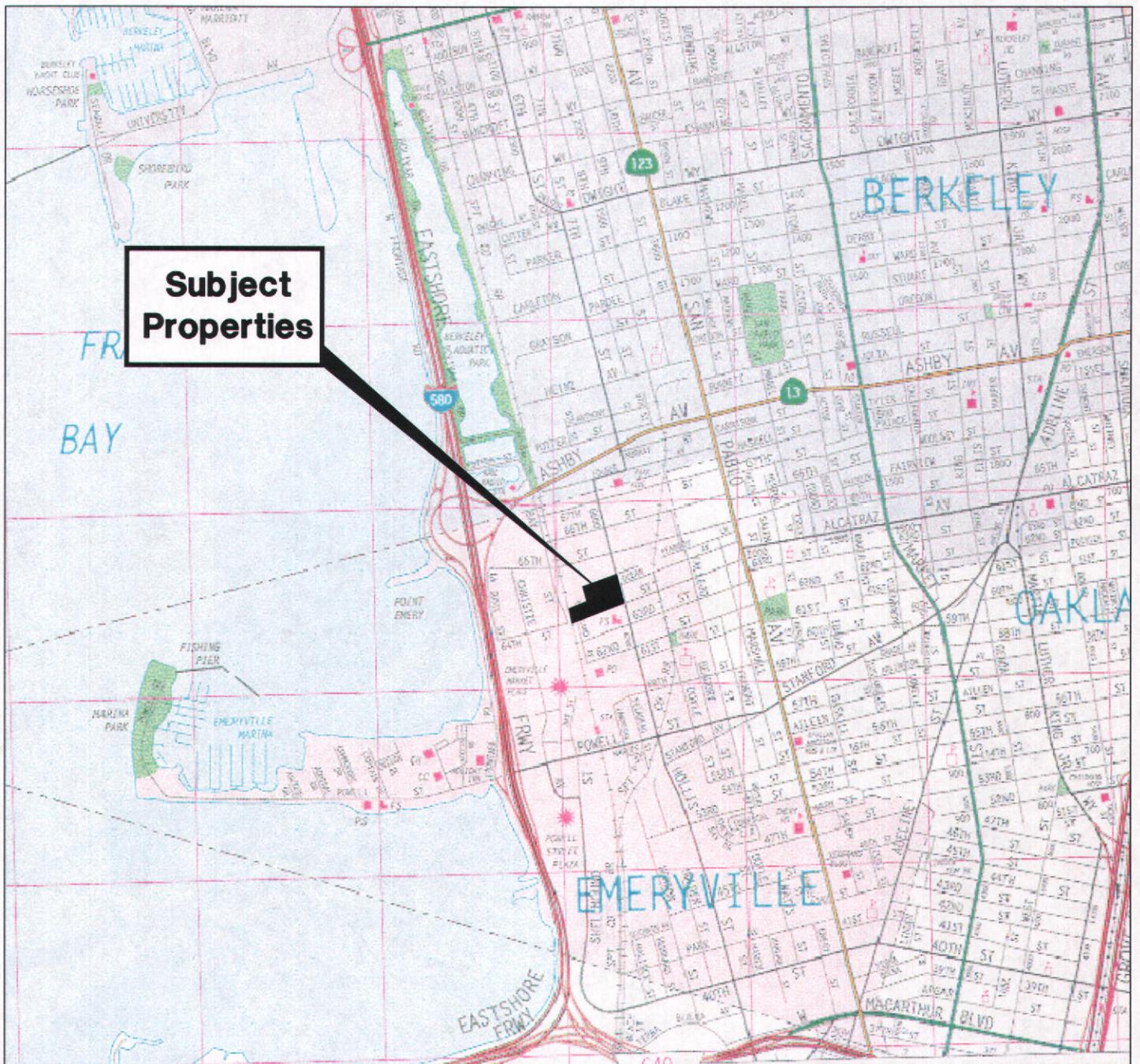
Notes and abbreviations:

- (1) TEPH is quantified as diesel. Samples were analyzed by EPA Method 8015M after performance of a silica gel cleanup in the laboratory.

TEPH = total extractable petroleum hydrocarbons

ug/L = micrograms per liter (ppb)

<50 = not detected at laboratory detection limit of 50 ug/L

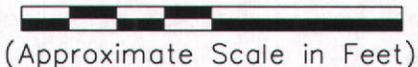


Subject Properties

Basemap Source: Thomas Guide Maps.



0 2000 4000



(Approximate Scale in Feet)

Erler & Kalinowski, Inc.

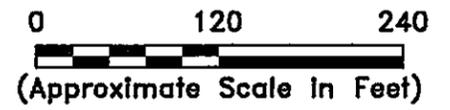
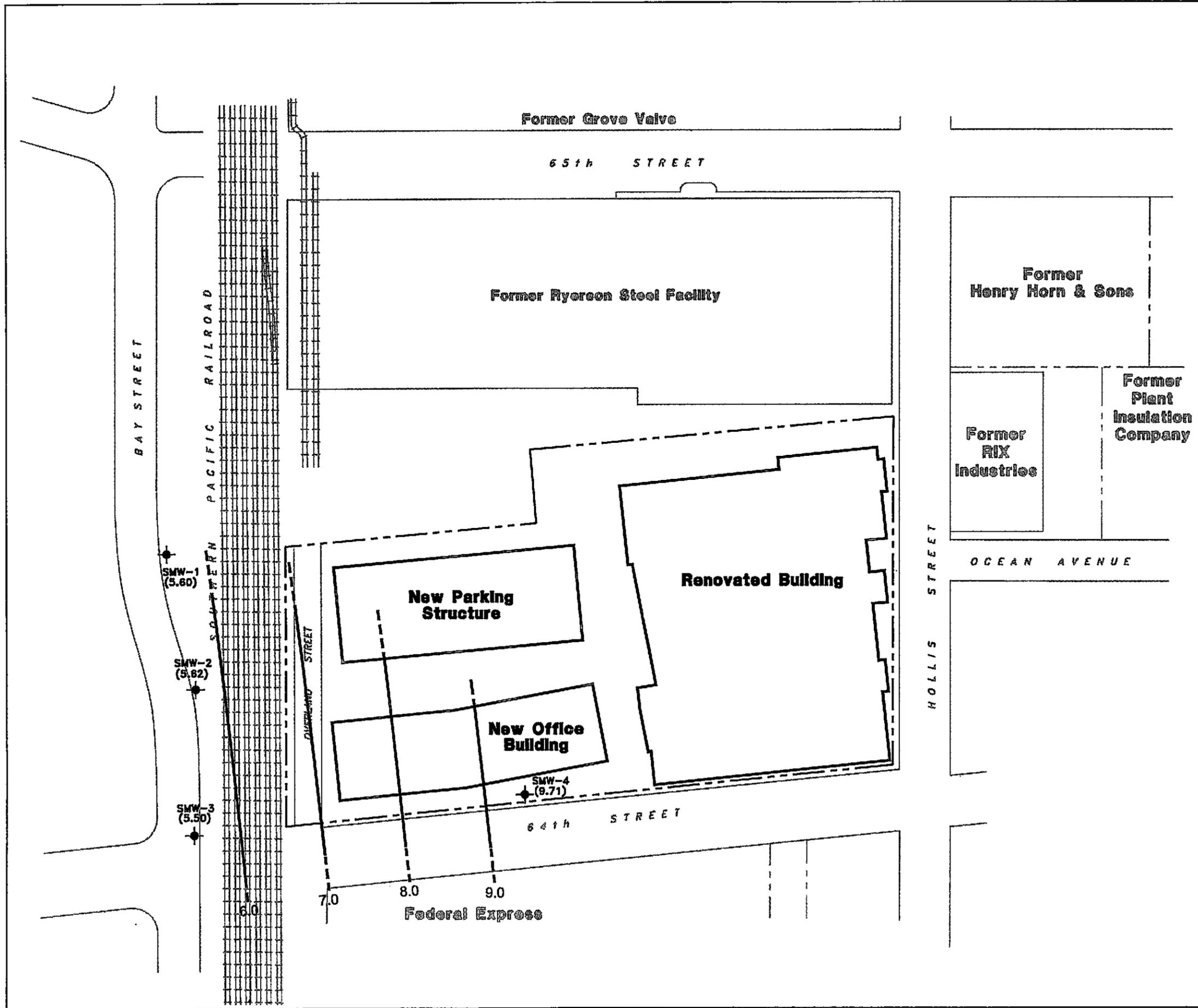
Site Location

64th Street Properties
Emeryville, CA
August 2003
EKI 990016.05

Notes:

- 1. All locations are approximate.

Figure 1



LEGEND

- Railroad Tracks
- Approximate Property Boundary
- Boundary of 64th Street Properties
- 7.0 Estimated Groundwater Potentiometric Surface, in Feet Above Mean Sea Level
- Monitoring Well Constructed After Redevelopment
- (5.60) Water Level in Feet Above Mean Sea Level

Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.
3. Groundwater elevations measured 7 August 2003

Erler & Kalinowski, Inc.

Estimated Groundwater Potentiometric Surface Contour Map
 64th Street Properties
 Emeryville, CA
 August 2003
 EKI 990016.05
 Figure 2

APPENDIX A

Groundwater Purge Sample Forms for 7 August 2003

Daily Inspection Report No. _____

Sheet: 1 of _____
 Date: 8/7/3
 Project: SILICON-EMERYVILLE
 EKI Job No.: 990016.04

Contractor: _____

EKI Staff On-site: ROGER LION

Weather: CLEAR

Temperature: _____ F Max _____ F Min

Work Hours: 08:10 to 1340 Memos Issued: _____

Photos: _____

Special Conditions, Delays, Changes: _____

Accidents, Damage: _____

Sampling, Testing: PURGED & SAMPLED 4 WELLS

Visitors to Site: _____

Work Report (Work done, Personnel/Equipment working): I OPENED WELLS FOR WATER LEVEL MEASUREMENTS.

WELL	TIME OPENED	TIME MEASURED	DEPTH TO WATER
SMW-1	08:22	08:44	6.61
SMW-2	08:27	08:55	5.92
SMW-3	08:30	10:36	6.81 → ODOR
SMW-4	12:15	12:20	2.54 → ODOR & SLIGHT SHEEN

I CALIBRATED FIELD INSTRUMENTS, THEN STARTED PURGING SMW-1 AND SMW-2 USING PERISTALTIC PUMPS AND DEDICATED TUBING. I PURGED & SAMPLED SMW-3 IN THE SAME MANNER.

I PURGED & SMW-4 USING DEDICATED BAVERS AND PERISTALTIC PUMP. THE PERISTALTIC PUMP INLET WAS KEPT AT THE SURFACE TO REMOVE SHEEN.

I USED A CLEAN LENGTH OF PVC PIPE (3 INCH DIAM.) TO WHICH I ATTACHED A PIECE OF ALUMINUM FOIL TO CLOSE ONE END AS A STILLING TUBE. WHEN THE FOIL COVERED END WAS SUBMERGED, I DROPPED A NEW BAIER THROUGH THE FOIL TO COLLECT A WATER SAMPLE. WELLS WERE SECURED AND PURGE WATER WAS ADDED

TO DRUMS ON SITE. THERE ARE NOW 3 1/2 DRUMS OF PURGE WATER AND 2 EMPTY DRUMS. 1400 SAMPLES WERE DELIVERED TO CURTIS A TOMPKINS IN BERKELEY.

Distribution: Project Inspection File (orig)

Project Manager

By: Roger Lion

GROUNDWATER PURGE SAMPLE FORM

PROJECT NAME: _____ DATE: 8/7/3
 PROJECT NUMBER: _____ WELL NUMBER: SMW-2 PERSONNEL: R.D. Linn

WELL VOLUME CALCULATION:
 Depth of Wall (ft.) 15.13 - Depth to Water (ft.) 5.92 = Water Column (ft.) 9.21 * Multiplier (below) 0.64 = Casing Vol. (gallons) 5.89
 Mult. for casing diam. = 1-inch=0.041; 2-inch=0.16; 4-inch=0.64

PURGE METHOD: Submersible pump Dedicated Bailer
 Peristaltic pump Other

PURGE DEPTH: _____

START TIME: 09:19 END TIME: 10:19

TOTAL GALLONS PURGED: 19.6

INSTRUMENT CALIBRATION

Instrument	Field measure	Standard measure
Conductivity, (millimhos/cm @ 25C)		
pH		
pH		(SEE SMW-1)
Turbidity, NTU		
Temperature		
Depth Probe#		

SAMPLES: Field I.D. SMW-2 Time Collected 10:20 Containers & Preservation
~~3 - 40-ml VGAs w/ HGL~~
3 - 1-liter amber glass

SAMPLE METHOD: Dedicated Bailer Peristaltic Pump other

COMMENTS: _____

Time	09:59	10:05	10:13	10:19				
Volume Purged (gallons)	13.0	15.0	17.5	19.6				
Temperature (degrees C)	20.4	20.4	20.4	20.5				
pH	6.49	6.45	6.56	6.64				
Specific Conductivity @ 25 C (millimhos/cm)	0.745	0.739	0.741	0.738				
Turbidity (NTU) / Appearance	2.03	2.05	1.56	2.03				
Depth to Water during purge (feet)	6.47	6.46	6.40	6.39				
Number of Casing Volumes removed	2.21	2.54	2.97	3.33				
Purge Rate (gallons/minute)	0.325	0.33	0.313	0.35				

GROUNDWATER PURGE SAMPLE FORM

PROJECT NAME: Simon - Emergville DATE: 08/07/03
 PROJECT NUMBER: 990016.04 WELL NUMBER: SMW-3 PERSONNEL: R.D. Lion

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
<u>15.21</u>	<u>6.81</u>	<u>8.40</u>	<u>0.64</u>	<u>5.38</u>

Mult. for casing diam. = 1-inch=0.041; 2-inch=0.16; 4-inch=0.64

PURGE METHOD:

Submersible pump Dedicated Bailer
 Peristaltic pump Other

INSTRUMENT CALIBRATION

	Field	Standard
<u>Instrument</u>	<u>measure</u>	<u>measure</u>
Conductivity, (millimhos/cm @ 25C)		
pH		
pH		(SEE SMW-1)
Turbidity, NTU		
Temperature		
Depth Probe#		

PURGE DEPTH: _____

START TIME: 10:36 END TIME: 11:38

TOTAL GALLONS PURGED: 16.5

SAMPLES:	<u>Field I.D.</u>	<u>Time Collected</u>	<u>Containers & Preservation</u>
	<u>SMW-3</u>	<u>11:40</u>	<u>3 40-ml VOAs w/ HCL</u> <u>1 - 1-liter amber glass</u>

SAMPLE METHOD: Dedicated Bailer Peristaltic Pump other

COMMENTS: ODOR LIKE PETROLEUM OR DEGRADED PETROLEUM

Time	10:47	11:01	11:12	11:24	11:38			
Volume Purged (gallons)	3.5	7.0	9.8	13.6	16.5			
Temperature (degrees C)	22.5	22.6	22.3	22.0	22.1			
pH	6.66	6.66	6.70	6.71	6.73			
Specific Conductivity @ 25 C (millimhos/cm)	0.953	0.795	0.770	0.852	0.754			
Turbidity (NTU) / Appearance	2.55	—	—	—	—			
Depth to Water during purge (feet)	8.38	9.18	9.30	10.2	9.88			
Number of Casing Volumes removed	0.65	1.30	1.82	2.53	3.07			
Purge Rate (gallons/minute)	0.32	0.25	0.25	0.32	0.21			

GROUNDWATER PURGE SAMPLE FORM

PROJECT NAME: SIMEON - EMERYVILLE DATE: 08/07/03
 PROJECT NUMBER: 990016.04 WELL NUMBER: SMW-4 PERSONNEL: R.D. Lien

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
<u>15</u>	<u>2.54</u>	<u>12.46</u>	<u>* 0.64</u>	<u>= 7.97</u>

Mult. for casing diam. = 1-inch=0.041; 2-inch=0.16; 4-inch=0.64

PURGE METHOD:

Submersible pump Dedicated Bailer BOTH
 Peristaltic pump Other

INSTRUMENT CALIBRATION

Instrument	Field measure	Standard measure
Conductivity, (millimhos/cm @ 25C)		
pH	<u>(SEE SMW-1)</u>	
pH		
Turbidity, NTU		
Temperature		
Depth Probe#		

PURGE DEPTH: VARIABLE, TO BOTTOM

START TIME: 12:21 END TIME: 13:14

TOTAL GALLONS PURGED: 22

SAMPLES: Field I.D. Time Collected Containers & Preservation

SMW-4 13:16 ~~3~~ 40-ml VOAs w/ HCL
1 - 1-liter amber glass

SAMPLED THROUGH PVC STILLING TUBE CLOSED WITH ALUMINUM FOIL

SAMPLE METHOD: NEW Dedicated Bailer Peristaltic Pump other

COMMENTS: PETROLEUM ODOR, SLIGHT SHEEN

Time	12:27	12:41	12:56	13:14				
Volume Purged (gallons)	4.0	8.0	12.0	22.0				
Temperature (degrees C)	20.2	19.9	20.1	20.1				
pH	6.41	6.38	6.49	6.47				
Specific Conductivity @ 25 C (millimhos/cm)	11.60	11.70	11.80	11.75				
Turbidity (NTU) / Appearance	-	-	-	-				
Depth to Water during purge (feet)	3.37	3.12	3.41	-				
Number of Casing Volumes removed	0.51	1.00	1.50	2.76				
Purge Rate (gallons/minute)	0.67	0.29	0.26	0.71				

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1730 South Amphlett Blvd. Suite 320 San Mateo CA 94402

PHONE: 650-578-1172

FAX: 650-578-9131

Project Name Simeon		Project No. 9900016.04				ANALYSES REQUESTED							EKI COC No.			
Project Location Emeryville, CA		Laboratory Curtis & Tompkins				EPA 3630-Silica Gel Cleanup	EPA 8015M TPH diesel	MS/MSD							EXPECTED TURNAROUND	Remarks
Report Results to: DERBY DAVIDSON		Sampled By: ROGER LION														
Field Sample Identification	Lab Sample No.	Date	Time	Type of Sample	No. of Containers / Preservative											
SMW-1		8/7/3	09:51	WATER	1 - 1-L amber	X	X							10 day		
SMW-2		8/7/3	10:20	WATER	3 - 1-L amber	X	X	X						10 day	MS/MSD	
SMW-3		8/7/3	11:40	WATER	1 - 1-L amber	X	X							10 day		
SMW-4		8/7/3	13:16	WATER	1 - 1-L amber	X	X							10 day	FUEL PRODUCT?	
Special Instructions:																
Relinquished by: (Signature) <i>Roger Lion</i>		Date 8/7/3		Time 14:00		Received by: (Signature) <i>[Signature]</i>										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)										

APPENDIX B

Laboratory Analytical Reports and Chain of Custody Documents
for 7 August 2003

166793

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1730 South Amphlett Blvd. Suite 320 San Mateo CA 94402

PHONE: 650-578-1172

FAX: 650-578-9131

Project Name Simeon			Project No. 9900016.04			ANALYSES REQUESTED							EKI COC No.	
Project Location Emeryville, CA			Laboratory Curtis & Tompkins										EXPECTED TURNAROUND	Remarks
Report Results to: DERBY DAVIDSON			Sampled By: ROGER LION											
Field Sample Identification	Lab Sample No.	Date	Time	Type of Sample	No. of Containers / Preservative	EPA 3630-Silica Gel Cleanup	EPA 8015M TPH diesel							
-1 SMW-1		8/7/3	09:51	WATER	1 - 1-L amber	X	X						10 day	
-2 SMW-2		8/7/3	10:20	WATER	3 - 1-L amber	X	X	X					10 day	MS/MSD
-3 SMW-3		8/7/3	11:40	WATER	1 - 1-L amber	X	X						10 day	
-4 SMW-4		8/7/3	13:16	WATER	1 - 1-L amber	X	X						10 day	FUEL PRODUCT?
Special Instructions:														
Relinquished by: (Signature) <i>Roger Lion</i>					Date 8/7/3		Time 14:00		Received by: (Signature) <i>[Signature]</i>					
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					

<input checked="" type="checkbox"/> Received	<input checked="" type="checkbox"/> On Ice
<input checked="" type="checkbox"/> Cold	<input type="checkbox"/> Ambient
<input checked="" type="checkbox"/> Intact	

<input checked="" type="checkbox"/> Preservation Correct?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
---	------------------------------	-----------------------------	------------------------------

Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	08/07/03
Units:	ug/L	Received:	08/07/03
Diln Fac:	1.000		

Field ID:	SMW-1	Prepared:	08/08/03
Type:	SAMPLE	Analyzed:	08/12/03
Lab ID:	166793-001	Cleanup Method:	EPA 3630C
Batch#:	83555		

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	95	44-146

Field ID:	SMW-2	Prepared:	08/08/03
Type:	SAMPLE	Analyzed:	08/12/03
Lab ID:	166793-002	Cleanup Method:	EPA 3630C
Batch#:	83555		

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	109	44-146

Field ID:	SMW-3	Prepared:	08/11/03
Type:	SAMPLE	Analyzed:	08/13/03
Lab ID:	166793-003	Cleanup Method:	EPA 3630C
Batch#:	83600		

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	133	44-146

H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	08/07/03
Units:	ug/L	Received:	08/07/03
Diln Fac:	1.000		

Field ID:	SMW-4	Prepared:	08/11/03
Type:	SAMPLE	Analyzed:	08/13/03
Lab ID:	166793-004	Cleanup Method:	EPA 3630C
Batch#:	83600		

Analyte	Result	RL
Diesel C10-C24	1,100 H Y	50

Surrogate	%REC	Limits
Hexacosane	104	44-146

Type:	BLANK	Prepared:	08/08/03
Lab ID:	QC221785	Analyzed:	08/11/03
Batch#:	83555	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	91	44-146

Type:	BLANK	Prepared:	08/11/03
Lab ID:	QC222005	Analyzed:	08/12/03
Batch#:	83600	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	94	44-146

H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC221786	Batch#:	83555
Matrix:	Water	Prepared:	08/08/03
Units:	ug/L	Analyzed:	08/11/03

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,363	95	38-137

Surrogate	%REC	Limits
Hexacosane	104	44-146



Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC222006	Batch#:	83600
Matrix:	Water	Prepared:	08/11/03
Units:	ug/L	Analyzed:	08/12/03

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,392	96	38-137

Surrogate	%REC	Limits
Hexacosane	103	44-146

Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Field ID:	SMW-2	Batch#:	83555
MSS Lab ID:	166793-002	Sampled:	08/07/03
Matrix:	Water	Received:	08/07/03
Units:	ug/L	Prepared:	08/08/03
Diln Fac:	1.000	Analyzed:	08/11/03

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC221787

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<43.00	2,500	2,239	90	35-138

Surrogate	%REC	Limits
Hexacosane	100	44-146

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC221788

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,164	87	35-138	3	33

Surrogate	%REC	Limits
Hexacosane	98	44-146

Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Batch#:	83600
MSS Lab ID:	166823-009	Sampled:	08/06/03
Matrix:	Water	Received:	08/08/03
Units:	ug/L	Prepared:	08/11/03
Diln Fac:	1.000	Analyzed:	08/12/03

Type: MS Lab ID: QC222007

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<43.00	2,500	2,433	97	35-138

Surrogate	%REC	Limits
Hexacosane	102	44-146

Type: MSD Lab ID: QC222008

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,802	112	35-138	14	33

Surrogate	%REC	Limits
Hexacosane	118	44-146

Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	83600
MSS Lab ID:	166828-005	Sampled:	08/08/03
Matrix:	Water	Received:	08/08/03
Units:	ug/L	Prepared:	08/11/03
Diln Fac:	1.000	Analyzed:	08/12/03

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC222009

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<43.00	2,500	2,295	92	35-138
Surrogate	%REC	Limits			
Hexacosane	104	44-146			

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC222010

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,026	81	35-138	12	33
Surrogate	%REC	Limits				
Hexacosane	87	44-146				



Total Extractable Hydrocarbons

Lab #:	166793	Location:	Simeon
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520C
Project#:	9900016.04	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	83600
MSS Lab ID:	166822-002	Sampled:	08/07/03
Matrix:	Water	Received:	08/08/03
Units:	ug/L	Prepared:	08/11/03
Diln Fac:	1.000	Analyzed:	08/13/03

Type: MS Lab ID: QC222011

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	171.0	2,500	2,738	103	35-138

Surrogate	%REC	Limits
Hexacosane	111	44-146

Type: MSD Lab ID: QC222012

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,677	100	35-138	2	33

Surrogate	%REC	Limits
Hexacosane	107	44-146