



July 31, 2000

California Environmental Protection Agency  
California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Alameda County  
NOV 05 2002  
Environmental Health

Attn: Mr. Farhad Azimzadeh

**Re: Addendum to URS Letter Report on Recent Groundwater Analytical Results,  
Shorenstein Realty Services, Parcel T9, 555 12th Street, Oakland**

Dear Mr. Azimzadeh:

URS, on behalf of Shorenstein Realty Services (Shorenstein), is pleased to submit this addendum to our letter report (dated July 28, 2000) detailing the analytical results from reanalysis of several of the groundwater samples collected from the recently installed dewatering wells at the subject site. TPH-diesel was detected in ten of the 18 samples originally collected. Two samples, W1 and W14, had concentrations of TPH, qualified as early range diesel, at 150 µg/l and 130 µg/l, respectively. The remaining eight samples with detectable concentrations of hydrocarbons quantified as TPH-diesel were qualified as either not representative of a diesel pattern ("ndp") or not representative of any known petroleum hydrocarbon ("nhc"). These eight samples were reanalyzed for TPH-diesel after undergoing silica gel cleanup (EPA Method 3630M).

#### **SAMPLE RESULTS**

TPH-diesel analysis quantifies all detected hydrocarbons between nine and 24 carbons long, irrespective of their source, against a diesel standard. The silica gel cleanup involves passing the sample extract through a silica gel matrix that retains polar hydrocarbons. Petroleum hydrocarbons are non-polar while many naturally occurring biogenic compounds are polar, and are therefore retained in the silica gel matrix. These biogenic hydrocarbons can interfere with quantification of petroleum hydrocarbons, leading to results that are biased high, unless extracted prior to analysis.

All reanalyzed samples (Tank, W2, W8, W9, W10, W11, W15, and W16) had no detectable concentration of TPH-diesel after undergoing silica gel cleanup. This indicates that the hydrocarbons originally detected were not petroleum hydrocarbons and are therefore not of concern at this site.

#### **QA/QC REVIEW OF DATA**

Reanalyzed samples were analyzed within the associated method-specific holding time. The method blank was free of contamination and all spike recoveries and relative percent differences were within control limits. In summary, the data reviewed are of acceptable precision and accuracy for project purposes.

URS Corporation  
500 12th Street, Suite 200  
Oakland, CA 94607-4014  
Tel: 510.893.3600  
Fax: 510.874.3268

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## CONCLUSION

The TPH-diesel data supports the proposed dewatering and discharge plan described in the subject letter report, whereby we proposed discharge without carbon treatment for the wells with non-detectable petroleum hydrocarbon concentrations.

If you have any questions regarding the reanalysis, or require any additional information, please contact me at (510) 874-3027.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jay B. Clare'.

Jay B. Clare, P.E.  
Project Manager

Attachment 1 – Analytical Data

cc: Susan L. Hugo, Alameda County Health Agency  
Nicholas Loukianoff, Shorenstein Realty Services  
Calvin Yoshida, Pankow Builders  
Margaret Rosegay, Pillsbury, Madison & Sutro LLP

Diesel with Silica Gel Clean-up

URS Greiner Woodward Clyde- Oakland

✉ 500 12th Street, Suite 200  
Oakland, CA 94607-4014

Attn: Almudena Villanueva

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 5109967060.08.00000

Project:

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
Tank	Water	07/16/2000 16:35	1
W2	Water	07/16/2000 12:02	3
W8	Water	07/16/2000 15:08	8
W9	Water	07/16/2000 14:18	9
W10	Water	07/15/2000 12:05	10
W11	Water	07/15/2000 15:40	11
W15	Water	07/15/2000 18:35	15
W16	Water	07/15/2000 19:23	16

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: Tank	Lab Sample ID: 2000-07-0222-001
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/16/2000 16:35	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/24/2000 13:02	
<b>Surrogate(s)</b> o-Terphenyl	76.1	60-130	%	1.00	07/24/2000 13:02	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

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To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: W2	Lab Sample ID: 2000-07-0222-003
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/16/2000 12:02	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 16:37	
<b>Surrogate(s)</b> o-Terphenyl	87.3	60-130	%	1.00	07/27/2000 16:37	

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Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W8</b>	Lab Sample ID: <b>2000-07-0222-008</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/16/2000 15:08	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 17:16	
<b>Surrogate(s)</b> o-Terphenyl	80.8	60-130	%	1.00	07/27/2000 17:16	

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To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W9</b>	Lab Sample ID: <b>2000-07-0222-009</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/16/2000 14:18	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 17:55	
<b>Surrogate(s)</b> o-Terphenyl	79.7	60-130	%	1.00	07/27/2000 17:55	

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To: URS Greiner Woodward Clyde- Oakland  
Attn.: Almudena Villanueva

Test Method: 8015m  
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W10</b>	Lab Sample ID: <b>2000-07-0222-010</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/15/2000 12:05	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 18:34	
<b>Surrogate(s)</b> o-Terphenyl	82.2	60-130	%	1.00	07/27/2000 18:34	



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Environmental Services (SDB)

Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W11</b>	Lab Sample ID: <b>2000-07-0222-011</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/15/2000 15:40	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 19:13	
<b>Surrogate(s)</b> o-Terphenyl	88.2	60-130	%	1.00	07/27/2000 19:13	

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Environmental Services (SDB)

Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W15</b>	Lab Sample ID: <b>2000-07-0222-015</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/15/2000 18:35	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 19:52	
<b>Surrogate(s)</b> o-Terphenyl	82.2	60-130	%	1.00	07/27/2000 19:52	

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Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn.: Almudena Villanueva

Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID: <b>W16</b>	Lab Sample ID: <b>2000-07-0222-016</b>
Project: 5109967060.08.00000	Received: 07/16/2000 17:30
Sampled: 07/15/2000 19:23	Extracted: 07/17/2000 13:07
Matrix: Water	QC-Batch: 2000/07/17-10.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2000 20:31	
<b>Surrogate(s)</b> o-Terphenyl	86.3	60-130	%	1.00	07/27/2000 20:31	

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Environmental Services (SDB)

Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland  
Attn.: Almudena Villanueva

Test Method: 8015m  
Prep Method: 3510/8015M

**Batch QC Report**  
Diesel with Silica Gel Clean-up

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/07/17-10.10</b>
MB: 2000/07/17-10.10-001		Date Extracted: 07/17/2000 13:07

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/27/2000 15:58	
<i>Surrogate(s)</i> o-Terphenyl	89.0	60-130	%	07/27/2000 15:58	

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Environmental Services (SDB)

Submission #: 2000-07-0222

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015m

Attn: Almudena Villanueva

Prep Method: 3510/8015M

## Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/07/17-10.10
LCS: 2000/07/17-10.10-002	Extracted: 07/17/2000 13:07	Analyzed 07/27/2000 21:10
LCSD: 2000/07/17-10.10-003	Extracted: 07/17/2000 13:07	Analyzed 07/27/2000 21:49

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	1060	1060	1250	1250	84.8	84.8	0.0	60-130	25		
<b>Surrogate(s)</b>											
<i>o</i> -Terphenyl	22.2	22.2	20.0	20.0	111.0	111.0		60-130			

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2000-07-0222 Ref# 53341

**URS Greiner Woodward Clyde**

500 12th Street, Suite 200, Oakland, CA 94607-4014

510.893.3600

**Chain of Custody Record**

Almudera Villanueva

(\*) Total Metals

USE

PROJECT NO. 5109967060.08 0000			Sample Matrix (Soil, Water, Air)	ANALYSES						Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) <i>[Signature]</i>				EPA Method 8010 Metals	EPA Method 9010 Cyanide (Total)	EPA Method 8010 VOLS	EPA Method 8270 PAHS	ED15M TRAC DIEX-TRUSE	ED15M TRAC		
DATE	TIME	SAMPLE NUMBER									
7/16/00	16:35	Tank				X	X	X	X	9	(*) TOTAL METALS IN PRESERVED CONTAINER - FILTER AND HOLD SAMPLE IN UNPRESERVED BOTTLE FOR METALS - Detection limits: Hg - 0.2 ug/L Cd - 2 ug/L As, Cr, Ni, Cu, Pb, W, Se, Ag = 5 ug/L Sb, Be, Th, Zn = 10 ug/L Cyanide = 10 ug/L (*) place on hold
7/16/00	11:10	W1						X	X	5	
7/16/00	12:02	W2		X	X	X	X	X	X	12	
7/16/00	12:57	W3						X	X	5	
		<del>W4</del>						X	X	<del>5</del>	
7/16/00	15:48	W5						X	X	5	
7/16/00	16:25	W6						X	X	5	
7/15/00	21:05	W7		X	X	X	X	X	X	12	
7/16/00	15:08	W8						X	X	5	
7/16/00	14:18	W9						X	X	5	
7/15/00	12:05	W10						X	X	5	
7/15/00	15:40	W11		X	X	X	X	X	X	12	
7/15/00	13:33	W12						X	X	5	
7/15/00	16:50	W13						X	X	5	
7/15/00	17:50	W14						X	X	5	
7/15/00	18:35	W15						X	X	5	
7/15/00	19:23	W16		X	X	X	X	X	X	12	
7/15/00	11:08	W17						X	X	5	
7/15/00	10:00	W18						X	X	5	
7/15/00	09:30	Trip Blank						X		3	
7/15/00	19:23	W-16 <del>SWR</del> Dip		X	X	X	X			8	
7/15/00	10:00	W-18 <del>SWR</del> Dip						X	X	5	
7/15/00	16:50	W-13 <del>SWR</del> Dip						X	X	5	

**RUSH**

3-4

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE/TIME 7/16/00 16:45	RECEIVED BY: (Signature) <i>[Signature]</i>	RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE/TIME 7/16/17:30	RECEIVED BY: (Signature) <i>[Signature]</i>
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature) <i>[Signature]</i>	DATE/TIME 7/16/17:30	