



**Centrum
Analytical
Laboratories, Inc.**

CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

Client: Lovell Construction
2852 Gundry Ave.
Signal Hill, CA 90755

Date Sampled: 10/25/07
Date Received: 10/25/07
Job Number: 30372

Project: Pauley Lease


CASE NARRATIVE

The following information applies to samples which were received on 10/25/07:

The sample was received at the laboratory chilled and the sample container was intact.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 11/01/07.

Report approved by:

 2007.11.01
09:52:33 -07'00'

Robert R. Clark, PhD
President

ELAP Lab# 2419, 2479, 2527, 2373, 2562

RL: Reporting Limit -- The lowest level at which the compound can be reliably detected under normal laboratory conditions.
ND: Not Detected -- The compound was analyzed for, but was not found to be present at or above the Reporting Limit.
NA: Not Analyzed -- This compound was not on the list of compounds requested for analysis.

Page 1 of 13

951•779•0310 or 800•798•9336 fax 951•779•0344
www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507



Metals by EPA 6010B and EPA 7471A

Client: Lovell Construction
 Project: Pauley Lease
 Job No: 30372
 Matrix: Soil
 Analyst: TLB

Date Sampled: 10/25/07
 Date Received: 10/25/07
 Date Digested: 10/31/07
 Date Analyzed: 10/31/07
 Batch Number: 6010S4115
 7471S1652

Metals	Method	Sample ID:	Blank	SAMPLE 1
		RL	mg/Kg	mg/Kg
Antimony	6010B	5.0	ND	ND
Arsenic	6010B	1.0	ND	293
Barium	6010B	0.50	ND	176
Beryllium	6010B	0.50	ND	ND
Cadmium	6010B	0.50	ND	1.69
Chromium	6010B	0.50	ND	19.2
Cobalt	6010B	0.50	ND	7.14
Copper	6010B	1.0	ND	35.1
Lead	6010B	1.0	ND	78.7
Molybdenum	6010B	5.0	ND	7.50
Nickel	6010B	1.0	ND	54.6
Selenium	6010B	5.0	ND	ND
Silver	6010B	2.0	ND	ND
Thallium	6010B	10	ND	ND
Vanadium	6010B	5.0	ND	23.1
Zinc	6010B	10	ND	84.6
Mercury	7471A	0.02	ND	0.05



QC Sample Report - Metals by EPA 6010B and EPA 7471A

Sample Matrix: Soil

Metals by EPA 6010B

Analytical Batch #: 6010S4115
 Spike Sample ID: Laboratory Control Sample
 MS/MSD Sample ID: 30385-1

Analytical Notes:

Compound	Batch Accuracy Results:				Batch Precision Results:				
	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limits	Pass/Fail
Antimony	50.0	101	75 - 125	Pass	36.54	36.51	0%	20%	Pass
Arsenic	50.0	89	75 - 125	Pass	40.59	39.94	2%	20%	Pass
Barium	50.0	93	75 - 125	Pass	141.9	128.0	10%	20%	Pass
Beryllium	50.0	93	75 - 125	Pass	42.09	42.39	1%	20%	Pass
Cadmium	50.0	90	75 - 125	Pass	38.37	38.07	1%	20%	Pass
Chromium	50.0	92	75 - 125	Pass	56.10	57.35	2%	20%	Pass
Cobalt	50.0	90	75 - 125	Pass	46.50	46.03	1%	20%	Pass
Copper	50.0	103	75 - 125	Pass	57.13	58.40	2%	20%	Pass
Lead	50.0	89	75 - 125	Pass	38.83	38.32	1%	20%	Pass
Molybdenum	50.0	99	75 - 125	Pass	42.29	42.15	0%	20%	Pass
Nickel	50.0	87	75 - 125	Pass	53.75	53.25	1%	20%	Pass
Selenium	50.0	86	75 - 125	Pass	40.21	39.22	2%	20%	Pass
Silver	50.0	117	75 - 125	Pass	44.71	41.19	8%	20%	Pass
Thallium	50.0	89	75 - 125	Pass	31.98	32.64	2%	20%	Pass
Vanadium	50.0	91	75 - 125	Pass	70.40	71.50	2%	20%	Pass
Zinc	50.0	107	75 - 125	Pass	85.46	89.87	5%	20%	Pass

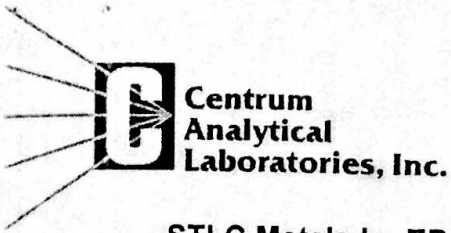
Mercury by EPA 7471A

Batch Number: 7471S1652
 Spike Sample ID: Laboratory Control Sample
 MS/MSD Sample ID: 30385-1

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limit	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	0.42	90	75 - 125	Pass	0.426	0.409	4%	20%	Pass

MS: Matrix Spike LCS: Laboratory Control Sample
 MSD: Matrix Spike Duplicate LCSD: Laboratory Control Sample Duplicate



STLC Metals by EPA 6010B

Client:	Lovell Construction	Date Sampled:	10/25/07
Project:	Pauley Lease	Date Received:	10/25/07
Job No:	30372	Date Extracted:	10/26/07
Matrix:	STLC Leachate*	Date Analyzed:	10/29-31/07
Analyst:	TLB	Batch Number:	6010W4112 7470W1651

Metals	Method #	Sample ID:		mg/L
		Blank	SAMPLE 1	
		RL	mg/L	mg/L
Antimony	6010B	10	ND	ND
Arsenic	6010B	2.0	ND	6.41
Barium	6010B	1.0	ND	7.08
Beryllium	6010B	1.0	ND	ND
Cadmium	6010B	1.0	ND	ND
Chromium	6010B	1.0	ND	ND
Cobalt	6010B	1.0	ND	ND
Copper	6010B	2.0	ND	ND
Lead	6010B	2.0	ND	2.85
Molybdenum	6010B	10	ND	ND
Nickel	6010B	2.0	ND	ND
Selenium	6010B	10	ND	ND
Silver	6010B	4.0	ND	ND
Thallium	6010B	20	ND	ND
Vanadium	6010B	10	ND	ND
Zinc	6010B	20	ND	ND
Mercury	7470A	0.04	ND	ND

*The sample was prepared by CCR Chapter 11, Article 5, Appendix II (STLC).

QC Sample Report - Metals by EPA 6010B and EPA 7470A

Sample Matrix: Water

Metals by EPA 6010B

Analytical Batch #: 6010W4110

Spike Sample ID: Initial Calibration Verification Standard

MS/MSD Sample ID: Initial Calibration Verification Standard

Analytical Notes:

Compound	Batch Accuracy Results:				Batch Precision Results:				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limits	Pass/Fail
Antimony	1.0	112	75 - 125	Pass	1.12	1.09	3%	20%	Pass
Arsenic	1.0	97	75 - 125	Pass	0.97	0.94	3%	20%	Pass
Barium	1.0	100	75 - 125	Pass	1.00	0.99	0%	20%	Pass
Beryllium	1.0	92	75 - 125	Pass	0.92	0.90	3%	20%	Pass
Cadmium	1.0	99	75 - 125	Pass	0.99	0.96	2%	20%	Pass
Chromium	1.0	99	75 - 125	Pass	0.99	0.97	2%	20%	Pass
Cobalt	1.0	99	75 - 125	Pass	0.99	0.92	7%	20%	Pass
Copper	1.0	101	75 - 125	Pass	1.01	1.00	1%	20%	Pass
Lead	1.0	97	75 - 125	Pass	0.97	0.93	4%	20%	Pass
Molybdenum	1.0	107	75 - 125	Pass	1.07	1.05	2%	20%	Pass
Nickel	1.0	100	75 - 125	Pass	1.00	0.98	2%	20%	Pass
Selenium	1.0	94	75 - 125	Pass	0.94	0.91	3%	20%	Pass
Silver	1.0	93	75 - 125	Pass	0.93	0.91	2%	20%	Pass
Thallium	1.0	99	75 - 125	Pass	0.99	0.96	3%	20%	Pass
Vanadium	1.0	97	75 - 125	Pass	0.97	0.95	2%	20%	Pass
Zinc	1.0	100	75 - 125	Pass	1.00	0.98	3%	20%	Pass

Analytical Notes:

Mercury by EPA 7470A

Batch Number: 7470W1651

Spike Sample ID: Initial Calibration Verification Standard

MS/MSD Sample ID: Initial Calibration Verification Standard

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limit	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	5.00	92	75 - 125	Pass	0.009	0.009	2%	20%	Pass

Analytical Notes:

MS: Matrix Spike

LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate

LCSD: Laboratory Control Sample Duplicate

TCLP Metals by EPA 6010B

Client:	Lovell Construction	Date Sampled:	10/25/07
Project:	Pauley Lease	Date Received:	10/25/07
Job No:	30372	Date Extracted:	10/28/07
Matrix:	TCLP Leachate*	Date Analyzed:	10/29-31/07
Analyst:	TLB	Batch Number:	6010W4110 7470W1651

Metals	Method #	Sample ID: RL	Blank mg/L	SAMPLE 1 mg/L
Arsenic	6010B	0.10	ND	1.63
Barium	6010B	4.0	ND	ND
Cadmium	6010B	0.050	ND	ND
Chromium	6010B	0.050	ND	ND
Lead	6010B	0.10	ND	ND
Selenium	6010B	0.50	ND	ND
Silver	6010B	0.20	ND	ND
Mercury	7470A	0.002	ND	ND

*The sample was prepared by SW-846 Method 1311 (TCLP).

QC Sample Report - Metals by EPA 6010B and EPA 7470A

Sample Matrix: Water

Metals by EPA 6010B

Analytical Batch #: 6010W4110

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: SAMPLE 1

Analytical Notes:

Compound	Batch Accuracy Results:				Batch Precision Results:				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery	Acceptance Limits	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limits
Arsenic	1.0	92	75 - 125	Pass	1.321	1.307	1%	20%	Pass
Barium	1.0	99	75 - 125	Pass	1.316	1.314	0%	20%	Pass
Cadmium	1.0	92	75 - 125	Pass	0.928	0.929	0%	20%	Pass
Chromium	1.0	93	75 - 125	Pass	0.943	0.939	0%	20%	Pass
Lead	1.0	88	75 - 125	Pass	0.890	0.879	1%	20%	Pass
Selenium	1.0	88	75 - 125	Pass	0.946	0.955	1%	20%	Pass
Silver	1.0	89	75 - 125	Pass	0.884	0.891	1%	20%	Pass

Mercury by EPA 7470A

Batch Number: 7471S1651

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: Laboratory Control Sample

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery	Acceptance Limit	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit
Mercury	5.00	90	75 - 125	Pass	0.009	0.009	4%	20%	Pass

MS: Matrix Spike

LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate

LCSD: Laboratory Control Sample Duplicate

QC Sample Report - Extractable Hydrocarbons as Diesel by GC/FID

Matrix: Soil
Batch Number: 8015DS4203

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Diesel	100	97	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Diesel	97.2	98.1	1%	25%	Pass

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate

LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

QC Sample Report - Volatile Hydrocarbons as Gasoline by GCMS

Matrix: Soil
Batch Number: MS5TPHGS407

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Gasoline	2.0	96	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Gasoline	2.10	2.11	0%	25%	Pass

Analytical Notes:

MS: Matrix Spike LCS: Laboratory Control Sample
MSD: Matrix Spike Duplicate LCSD: Laboratory Control Sample Duplicate

Volatile Organic Compounds by EPA 8260B

Client: Lovell Construction
 Project: Pauley Lease
 Job No.: 30372
 Matrix: Soil
 Analyst: CMR

Date Sampled: 10/25/07
 Date Received: 10/25/07
 Date Analyzed: 10/25/07
 Batch Number: MS58260S407

Compounds	Sample ID:	Blank	Sample 1
	RL	mg/Kg	mg/Kg
Acetone	0.25	ND	ND
tert-Amyl Methyl Ether (TAME)	0.010	ND	ND
Benzene	0.005	ND	ND
Bromobenzene	0.025	ND	ND
Bromochloromethane	0.025	ND	ND
Bromodichloromethane	0.005	ND	ND
Bromoform	0.025	ND	ND
Bromomethane	0.025	ND	ND
tert-Butanol (TBA)	0.10	ND	ND
2-Butanone (MEK)	0.050	ND	0.14
n-Butylbenzene	0.010	ND	ND
sec-Butylbenzene	0.010	ND	0.089
tert-Butylbenzene	0.010	ND	ND
Carbon disulfide	0.050	ND	ND
Carbon tetrachloride	0.005	ND	ND
Chlorobenzene	0.005	ND	ND
Chloroethane	0.025	ND	ND
Chloroform	0.010	ND	ND
Chloromethane	0.005	ND	ND
2-Chlorotoluene	0.010	ND	ND
4-Chlorotoluene	0.010	ND	ND
Dibromochloromethane	0.010	ND	ND
1,2-Dibromoethane	0.010	ND	ND
1,2-Dibromo-3-chloropropane	0.050	ND	ND
Dibromomethane	0.005	ND	ND
1,2-Dichlorobenzene	0.005	ND	ND
1,3-Dichlorobenzene	0.010	ND	ND
1,4-Dichlorobenzene	0.010	ND	ND
Dichlorodifluoromethane	0.025	ND	ND
1,1-Dichloroethane	0.005	ND	ND
1,2-Dichloroethane	0.005	ND	ND
1,1-Dichloroethene	0.025	ND	ND
cis-1,2-Dichloroethene	0.010	ND	ND
trans-1,2-Dichloroethene	0.010	ND	ND
1,2-Dichloropropane	0.005	ND	ND
1,3-Dichloropropane	0.005	ND	ND
2,2-Dichloropropane	0.005	ND	ND
1,1-Dichloropropene	0.005	ND	ND

Volatile Organic Compounds by EPA 8260B

Client: Lovell Construction
 Project: Pauley Lease
 Job No.: 30372
 Matrix: Soil
 Analyst: CMR

Date Sampled: 10/25/07
 Date Received: 10/25/07
 Date Analyzed: 10/25/07
 Batch Number: MS58260S407

Compounds	Sample ID:	Blank	Sample 1
	RL	mg/Kg	mg/Kg
cis-1,3-Dichloropropene	0.005	ND	ND
trans-1,3-Dichloropropene	0.005	ND	ND
Diisopropyl Ether (DIPE)	0.010	ND	ND
Ethylbenzene	0.005	ND	ND
Ethyl tert-Butyl Ether (EtBE)	0.010	ND	ND
Hexachlorobutadiene	0.005	ND	ND
2-Hexanone	0.050	ND	ND
Isopropylbenzene	0.005	ND	ND
p-Isopropyltoluene	0.010	ND	0.058
Methylene chloride	0.250	ND	ND
4-Methyl-2-pentanone	0.050	ND	ND
Methyl tert-Butyl Ether (MtBE)	0.010	ND	ND
Naphthalene	0.010	ND	0.17
n-Propylbenzene	0.005	ND	ND
Styrene	0.005	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND
1,1,2,2-Tetrachloroethane	0.010	ND	ND
Tetrachloroethene	0.005	ND	ND
Toluene	0.005	ND	ND
1,2,3-Trichlorobenzene	0.010	ND	ND
1,2,4-Trichlorobenzene	0.010	ND	ND
1,1,1-Trichloroethane	0.005	ND	ND
1,1,2-Trichloroethane	0.015	ND	ND
Trichloroethene	0.005	ND	ND
1,2,3-Trichloropropane	0.015	ND	ND
Trichlorofluoromethane	0.005	ND	ND
Trichlorotrifluoroethane	0.025	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	0.18
1,3,5-Trimethylbenzene	0.005	ND	0.41
Vinyl chloride	0.010	ND	ND
Xylenes, m-,p-	0.010	ND	0.059
Xylene, o-	0.005	ND	0.083

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	Blank	Sample 1
Dibromofluoromethane	102	116
Toluene-d8	104	96
Bromofluorobenzene	97	112

QC Sample Report - Volatile Organic Compounds by EPA 8260B

Matrix: Soil
Batch Number: MS58260S407

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Analytical Notes:

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	0.050	100	70 - 130	Pass
Benzene	0.050	96	70 - 130	Pass
Trichloroethene	0.050	98	70 - 130	Pass
Toluene	0.050	98	70 - 130	Pass
Chlorobenzene	0.050	95	70 - 130	Pass

Batch Precision Results

MS/MSD Sample ID: 30345-1

Analytical Notes:

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
1,1-Dichloroethene	0.0514	0.0633	21%	25%	Pass
Benzene	0.0504	0.0477	6%	25%	Pass
Trichloroethene	0.0518	0.0480	8%	25%	Pass
Toluene	0.0525	0.0466	12%	25%	Pass
Chlorobenzene	0.0511	0.0470	8%	25%	Pass

MS: Matrix Spike
MSD: Matrix Spike Duplicate

LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive, Suite 100
 Riverside, CA 92507
 Voice: 951.779.0310 • 800.798.9336
 Fax: 951.779.0344

3299 Hill Street, Suite 305
 Signal Hill, CA 90755
 Voice: 562.498.7005
 Fax: 562.498.8617

www.centrum-labs.com

lab@centrum-labs.com

Chain of Custody Record

Centrum Job # 30372

Page 1 of 1

Please Circle Analyses Requested

Project No: 5&C		Project Name: PAVELY LEASE		Turn-Around Time see note: <input type="checkbox"/> 24 Hr. RUSH * <input type="checkbox"/> 48 Hr. RUSH * <input checked="" type="checkbox"/> Normal TAT <input type="checkbox"/> Other _____ * Requires PRIOR approval, additional charges apply															
Project Manager: Robb NIEL		Phone: 562 989 0514		Requested due date: _____															
Client Name: LOVELL CORP <small>(Report and Billing)</small> 3852 GUNDAY AVE SIGNAL HILL CA 90755		Address: _____ <small>(Report and Billing)</small>		Remarks/Special Instructions															
Note: Reports and Invoice will be sent here		Fax: 562 989 2114																	
email: construct4@aol.com		Note: Construct 4 @ AOL.COM																	
Centrum ID <small>(Lab use only)</small>	Sample ID <small>(Use R should appear on report)</small>	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	LUFT Diesel, or EPA 8015B DRO	LUFT Gas, or EPA 8015B GRO	Fuel ID (TVH, TEH) <u>Carbon Chain (specify ranges)</u>	8021B: BTEX/MtBE Only <u>C-6 to C-10</u>	VOCs: <u>8260B</u> or 624	VOCs: BTEX/Oxygenates Only	SVOCs: 8270C, or 625	8081A/8082: Pesticides, or PCBs, or Pest/PCB	Metals: <u>TiUe 22 (CAM)</u> , or RCRA, or PP	Metals: <u>TCLP/STLC CAM/RCRA</u>	pH, TDS, TSS	418.1 (TRPH), or 413.2, or 1664	
1	SAMPLE 1	10/25	10:20	Soil	Barnett/Garwood	TOP GRASS			X		X				X	X			
1) Relinquished by: (Sampler's Signature) _____		Date: _____	Time: _____	3) Relinquished by: _____		Date: _____	Time: _____	6) Received for Laboratory by: _____		Date: _____	Time: _____	Report Formats: Check all applicable		Sample Disposal					
2) Received by: _____		Date: _____	Time: _____	4) Received by: _____		Date: _____	Time: _____	5) Relinquished by: _____		Date: _____	Time: _____	<input type="checkbox"/> Paper report <input type="checkbox"/> PDF report (include email address) <input type="checkbox"/> LARWQCB <input type="checkbox"/> EDF (include global ID) <input type="checkbox"/> EDD (GISKEY) <input type="checkbox"/> EDD (Other) * <small>* with prior approval only</small>		<input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Lab disposal Sample Locator Number: <u>E</u>					