

57



Alpha Analytical Laboratories Inc. 860 Waugh Lane, H-1, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Cloverdale, City of
P.O. Box 217
Cloverdale, CA 95425
Attn: Jay Robinson

Report Date: 08/26/02 13:16
Project No: [none]
Project ID: California Toxics Rule

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A208266	08/13/2002 12:10	CLOVER	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Receiving Water	A208266-01	Water	08/13/02 10:26	08/13/02 12:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea C Epstein

Andrea C. Epstein For Sheri L. Speaks
Project Manager 8/26/02



Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 2 of 5

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Order Number: A208266 Receipt Date/Time: 08/13/2002 12:10 Client Code: CLOVER Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Rows include Receiving Water (A208266-01), Metals by EPA 6000/7000 Series Methods (Chromium, hexavalent), Metals by EPA 200 Series Methods (Silver, Arsenic, Beryllium, Cadmium, Chromium, Copper, Nickel, Lead, Antimony, Selenium, Thallium, Zinc), and Organochlorine Pesticides and PCBs by EPA Method 608 (Aldrin, HCH-alpha, HCH-beta, HCH-gamma, HCH-delta, Chlordane, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde).

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Handwritten signature: Andrea C. Epstein

Andrea C. Epstein For Sheri L. Speaks
Project Manager

8/26/02



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Project No: [none]
Project ID: California Toxics Rule

Order Number Receipt Date/Time Client Code Client PO/Reference
A208266 08/13/2002 12:10 CLOVER

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Receiving Water (A208266-01)							
Organochlorine Pesticides and PCBs by EPA Method 608 (cont'd)							
Heptachlor	EPA 608	"	"	08/23/02	ND "	0.010	
Heptachlor epoxide	"	"	"	"	ND "	0.010	
PCB-1016	"	"	"	"	ND "	0.50	
PCB-1221	"	"	"	"	ND "	0.50	
PCB-1232	"	"	"	"	ND "	0.50	
PCB-1242	"	"	"	"	ND "	0.50	
PCB-1248	"	"	"	"	ND "	0.50	
PCB-1254	"	"	"	"	ND "	0.50	
PCB-1260	"	"	"	"	ND "	0.50	
Toxaphene	"	"	"	"	ND "	0.50	
Surrogate: Dibutylchloride	"	"	"	"	76.5 %	39-150	
Purgeables by EPA Method 624							
Acrolein	EPA 624	AH21601	08/13/02	08/15/02	1	ND ug/l	2.0
Acrylonitrile	"	"	"	"	"	ND "	2.0
Benzene	"	"	"	"	"	ND "	0.30
Bromoform	"	"	"	"	"	ND "	0.50
Carbon tetrachloride	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
Dibromochloromethane	"	"	"	"	"	ND "	0.50
Chloroethane	"	"	"	"	"	ND "	0.50
Chloroform	"	"	"	"	"	ND "	0.50
Bromodichloromethane	"	"	"	"	"	ND "	0.50
1,1-Dichloroethane	"	"	"	"	"	ND "	0.50
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
1,1-Dichloroethene	"	"	"	"	"	ND "	0.50
1,2-Dichloropropane	"	"	"	"	"	ND "	0.50
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50
Ethylbenzene	"	"	"	"	"	ND "	0.50
Bromomethane	"	"	"	"	"	ND "	0.50
Chloromethane	"	"	"	"	"	ND "	0.50

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Andrea C Epstein

Andrea C. Epstein For Sheri L. Speaks
Project Manager

8/26/02



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CHEMICAL EXAMINATION REPORT

Page 4 of 5

Cloverdale, City of
P.O. Box 217
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Attn: Jay Robinson

Report Date: 08/26/02 13:16
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Project ID: California Toxics Rule

Order Number Receipt Date/Time Client Code Client PO/Reference
A208266 08/13/2002 12:10 CLOVER

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Receiving Water (A208266-01)			Sample Type: Water			Sampled: 08/13/02 10:26		
Purgeables by EPA Method 624 (cont'd)								
Methylene chloride	EPA 624	"	"	08/15/02	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	"	ND "	0.30	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.50	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.50	
Trichloroethene	"	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
Surrogate: Dibromofluoromethane	"	"	"	"	"	97.8 %	70-130	
Surrogate: Toluene-d8	"	"	"	"	"	89.6 %	70-130	
Surrogate: Bromofluorobenzene	"	"	"	"	"	71.8 %	70-130	
Conventional Chemistry Parameters by APHA/EPA Methods								
Cyanide (total)	EPA 335.2	AH22008	08/19/02	08/20/02	1	ND mg/l	0.0030	
pH	EPA 150.1	AH21314	08/13/02	08/13/02	"	7.5 pH Units	3.0	
Salinity	SM 2520	AG21208	08/16/02	08/16/02	"	ND g/kg	10	
Physical Parameters by APHA/ASTM/EPA Methods								
Hardness, Total	SM2340B	AH21202	08/14/02	08/21/02	1	92 mg/l	5	

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Andrea C Epstein

Andrea C. Epstein For Sheri L. Speaks
Project Manager

8/26/02



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CHEMICAL EXAMINATION REPORT

Page 5 of 5

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Attn: Jay Robinson

Report Date: 08/26/02 13:16
Project No: [none]
Project ID: California Toxics Rule

Order Number
A208266

Receipt Date/Time
08/13/2002 12:10

Client Code
CLOVER

Client PO/Reference

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

SEVERN TRENT LABORATORIES, INC.
PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

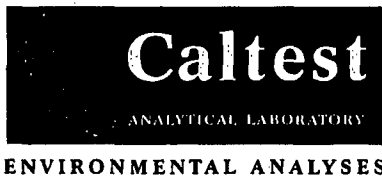
Lot #: G2H140237 Alpha Analytical Labs PAGE 1
 Alpha Analytical Labs, Ukiah Date Reported: 9/13/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
------------------	---------------	----------------------------	--------------	------------------------------

Client Sample ID: A208266-01

Sample #: 001 Date Sampled: 08/13/02 10:26 Date Received: 08/14/02 Matrix: WATER

Dioxins/Furans, HRGC/HRMS					Reviewed
2,3,7,8-TCDD	ND	3.5	pg/L	EPA-5 1613B	



LAB ORDER No.:

C080543

Page 1 of 2

REPORT of ANALYTICAL RESULTS

Report Date:

26 AUG 2002

Received Date:

14 AUG 2002


Client: Sheri L. Speaks
Alpha Analytical Laboratory, Inc.
860 Waugh Lane
Ukiah, CA 95482-5990


Project: A208266

Sampled by:

CLIENT

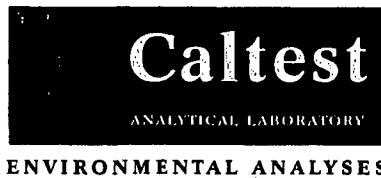
<u>Lab Number</u>	<u>Sample Identification</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>
C080543-1	A208266-01 RECEIVING WATER	AQUEOUS	13 AUG 02 10:26


William Svoboda
Project Manager


Christine Horn
Laboratory Director

CALTEST authorizes this report to be reproduced only in its entirety.
Results are specific to the sample as submitted and only to the parameters reported.
All analyses performed by EPA Methods or Standard Methods (SM) 18th Ed. except where noted.
Results of 'ND' mean not detected at or above the listed Reporting Limit (R.L.).
'D.F.' means Dilution Factor and has been used to adjust the listed Reporting Limit (R.L.).
Acceptance Criteria for all Surrogate recoveries are defined in the QC Spike Data Reports.
Caltest collects samples in compliance with CFR 40, EPA Methods, Cal. Title 22, and Standard Methods.

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax: (707) 226-1001 • e-mail: caltest@caltestlab.com



INORGANIC ANALYTICAL RESULTS

LAB ORDER No.:

C080543

Page 2 of 2

<u>ANALYTE</u>	<u>RESULT</u>	<u>R.L.</u>	<u>MDL</u>	<u>UNITS</u>	<u>D.F.</u>	<u>METHOD</u>	<u>ANALYZED</u>	<u>QC BATCH</u>	<u>NOTES</u>
LAB NUMBER: C080543-1 SAMPLE ID: A208266-01 RECEIVING WATER SAMPLED: 13 AUG 02 10:26									
Mercury, Trace Level	0.0014	0.0005	0.00024	ug/L	1	1631B	08.22.02	A020988MER	1.2

- 1) Sample Preparation on 08-21-02 using 1631B
- 2) 'RL' (Reporting Limit) represents the lowest calibration standard in methods that require multipoint calibrations. RL is equivalent to the ML (Minimum Level) in the State Implementation Plan (SIP) of the California Toxics Rule (CTR).



ENVIRONMENTAL ANALYSES

LAB ORDER No.:

C080543

Page 1 of 4

SUPPLEMENTAL QUALITY CONTROL (QC) DATA REPORT

Report Date:

26 AUG 2002

Received Date:

14 AUG 2002

Client: Sheri L. Speaks
Alpha Analytical Laboratory, Inc.
860 Waugh Lane
Ukiah, CA 95482-5990

Project: A208266

<u>QC Batch ID</u>	<u>Method</u>	<u>Matrix</u>
A020988MER	1631B	AQUEOUS

William Svoboda
William Svoboda
Project Manager

Christine Horn
Christine Horn
Laboratory Director

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Results are specific to the sample as submitted and only to the parameters reported.
All analyses performed by EPA Methods or Standard Methods (SM) 18th Ed. except where noted.
Results of 'ND' mean not detected at or above the listed Reporting Limit (R.L.).
Analyte Spike Amounts reported as 'NS' mean not spiked and will not have recoveries reported.
'RPD' means Relative Percent Difference and RPD Acceptance Criteria is stated as a maximum.
'NC' means not calculated for RPD or Spike Recoveries.



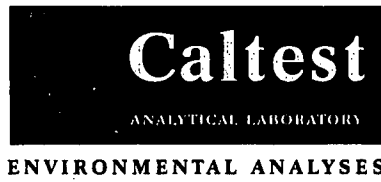
ENVIRONMENTAL ANALYSES

METHOD BLANK ANALYTICAL RESULTS

LAB ORDER No.:

C080543
Page 2 of 4

<u>ANALYTE</u>	<u>RESULT</u>	<u>R.L.</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>NOTES</u>
QC BATCH: A020988MER					
Mercury, Trace Level	ND	0.0005	ug/L	08.22.02	



LABORATORY CONTROL SAMPLE ANALYTICAL RESULTS

LAB ORDER No.:

C080543
Page 3 of 4

<u>ANALYTE</u>	<u>SPIKE AMOUNT</u>	<u>SPIKE\DUPLICATE RESULT</u>	<u>SPK\DUPLICATE %REC</u>	<u>ACCEPTANCE %REC \RPD</u>	<u>REL% DIFF</u>	<u>ANALYZED</u>	<u>NOTES</u>
QC BATCH: A020988MER							
Mercury, Trace Level	0.0200	0.0210\	105\	71-125\20		08.22.02	



ENVIRONMENTAL ANALYSES

LAB ORDER No.:

C080543

MATRIX SPIKE ANALYTICAL RESULTS

Page 4 of 4

<u>ANALYTE</u>	<u>ORIGINAL RESULT</u>	<u>SPIKE AMOUNT</u>	<u>SPIKE\DUPLICATE RESULT</u>	<u>SPK\DUPLICATE %REC</u>	<u>ACCEPTANCE %REC</u>	<u>REL% \RPD</u>	<u>DIFF</u>	<u>ANALYZED</u>	<u>NOTES</u>
----------------	------------------------	---------------------	-------------------------------	---------------------------	------------------------	------------------	-------------	-----------------	--------------

QC BATCH: A020988MER
QC SAMPLE LAB NUMBER: C080526-1

Mercury, Trace Level	0.000497	0.0200	0.0235\0.0227	115\111	71-125\20	3.5	08.22.02		
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RJ Lee Group, Inc.

530 McCormick St. • San Leandro, CA 94577
(510) 567-0480 • FAX (510) 567-0488

August 19, 2002

Ms. Sheri Speaks
Alpha Analytical Laboratories Inc.
860 Waugh Lane, H-1
Ukiah, CA 95482

RE: TEM Asbestos Analysis Results for Samples as Shown on Test Report & Table II
RJ Lee Group Job No.: ATC208292
Customer Project No.: A208266

Dear Ms. Speaks:

Enclosed are the results from the transmission electron microscopy (TEM) asbestos analysis for your above referenced project using EPA-600/R-94/134 (100.2) *Determination of Asbestos Structures over 10µm in length in Drinking Water.*

We did not receive a duplicate water sample of at least 800ml as specified in EPA Method-600/R-94/134 (100.2).

Test Report lists each RJ Lee Group sample identification number, client sample number, filter area, sample volume, area analyzed, structure count for chrysotile and amphibole, analytical sensitivity, and the concentration of asbestos. Table II lists the same information for structures equal to or larger than 10µm.

Copies of count sheets are enclosed as Appendix A. Each count sheet contains sample information pertaining to structure identification, dimensions, magnification, filter size and type.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted.

If you have any questions, feel free to call me.

Sincerely,


Sean Fitzgerald
Project Manager

SF/sjb
Enclosures

Monroeville, PA • San Leandro, CA • Washington, D.C.

Test Report
Total Asbestos Structure Concentration
TEM Water Analysis
Project ATC208292

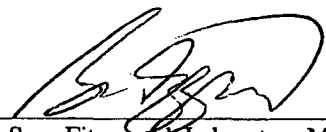
RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume (ml)	Area Analyzed		Structures		Analytical Sensitivity †		Concentration (S/L 10 ⁶)	Analysis Date
				(sq mm)	Dilution	Chr	Amp	(S/sq. mm)	(S/L 10 ⁶)		
1831515CT	A208266-01	385	100.00	0.1859	-	0	0	5.40	0.021	<0.021*	8/18/02

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, August 14, 2002

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature 
 Sean Fitzgerald, Laboratory Manager
 Date Monday, August 19, 2002

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577
 Test Report Page: 1 of 1

Phone (510) 567-0480
 Fax (510) 567-0488

Table II
Asbestos Concentration for Structures $\geq 10 \mu\text{m}$ in Length
TEM Water Analysis
Project ATC208292

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume (ml)	Area Analyzed (sq mm)	Dilution	Structures $\geq 10 \mu\text{m}$		Analytical Sensitivity † (S/sq. mm)	Sensitivity † (S/L 10^6)	Concentration for Structures $\geq 10 \mu\text{m}$ (S/L 10^6)	Analysis Date
						Chr	Amp				
1831515CT	A208266-01	385	100.00	0.1859	-	0	0	5.40	0.021	<0.021*	8/18/02

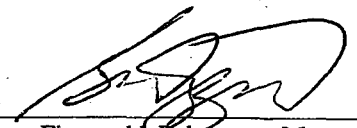
†Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, August 14, 2002

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature _____


 Sean Fitzgerald, Laboratory Manager

Date

Monday, August 19, 2002

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577

Phone (510) 567-0480
 Fax (510) 567-0488

Table VI
Poisson NonAsbestos Concentrations for Structures $\geq 10 \mu\text{m}$ in Length
TEM Water Analysis
Project ATC208292

Sample Number	Client Sample Number	Actual Counts	Poisson Range		Lower Concentration Bounds ‡		Upper Concentration Bounds ‡		Analysis Date
			Lower	Upper	S/sq mm	S/cc	S/sq mm	S/cc	
1831515CT	A208266-01	0	0	4	<5.38*	<20.7138*	21.52	82.8553	8/18/02

‡ Volumes provided by Alpha Analytical Laboratories Inc. for Project A208266 were used to calculate analytical results and sensitivities.

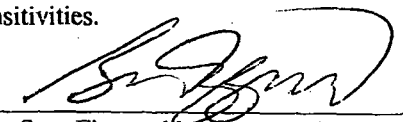
† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, August 14, 2002

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature _____



Sean Fitzgerald, Laboratory Manager

Date

Monday, August 19, 2002

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577

Phone (510) 567-0480
 Fax (510) 567-0488

RJ Lee Group, Inc
Count Sheet

Client Name Alpha Analytical Laboratories Inc.
 Project Number ATC208292
 RJL Sample # 1831515CT
 Client Sample # A208266-01
 Microscope J-1200
 Accelerating Volt 120 Kv
 Magnification 20000 X
 Analyst MB
 EDS Disk

RJL QA Number CQ15693
 Grid Openings 20
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 100.0 ml
 Grid Opening Area 0.0093 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	0			NSD						
19	0			NSD						
20	0			NSD						

McC Campbell Analytical Inc.
 110 2nd Avenue South, #107, Pacheco, CA 94553-5500
 Telephone: 925-798-1620 Fax: 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

Alpha Analytical Laboratories 860 Waugh Lane, H-1 Ukiah, CA 95482	Client Project ID: #A208266	Date Sampled: 08/13/02
		Date Received: 08/14/02
	Client Contact: Sheri Speaks	Date Extracted: 08/14/02
	Client P.O.:	Date Analyzed: 08/21/02

Semivolatiles Organics by Solid-Phase Extraction and GC/MS (Basic Target List)*

Extraction Method: SW3535A

Analytical Method: E625

Work Order: 0208251

Lab ID: 0208251-001A
 Client ID: A208266-01 Receiving Water
 Matrix: Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<20	20	1	Acenaphthylene	ND<200	20	10
Anthracene	ND<200	20	10	Benidine	ND<100	20	5
Benzo(a)anthracene	ND<200	20	10	Benzo(b)fluoranthene	ND<200	20	10
Benzo(k)fluoranthene	ND<200	20	10	Benzo(g,h,i)perylene	ND<100	20	5
Benzo(a)pyrene	ND<200	20	10	Bis(2-chloroethoxy)methane	ND<100	20	5
Bis(2-chloroethyl)ether	ND<20	20	1	Bis(2-chloroisopropyl)ether	ND<40	20	2
Bis(2-ethylhexyl)phthalate	ND<100	20	5	4-Bromophenyl phenyl ether	ND<100	20	5
Butyl benzyl phthalate	ND<200	20	10	4-Chloro-3-methylphenol	ND<20	20	1
2-Chloronaphthalene	ND<200	20	10	2-Chlorophenol	ND<100	20	5
4-Chlorophenyl phenyl ether	ND<100	20	5	Chrysene	ND<200	20	10
Dibenz(a,h)anthracene	ND<200	20	10	Di-n-butyl phthalate	ND<200	20	10
1,2-Dichlorobenzene	ND<40	20	2	1,3-Dichlorobenzene	ND<20	20	1
1,4-Dichlorobenzene	ND<20	20	1	3,3'-Dichlorobenzidine	ND<100	20	5
2,4-Dichlorophenol	ND<100	20	5	Diethyl phthalate	ND<40	20	2
2,4-Dimethylphenol	ND<40	20	2	Dimethyl phthalate	ND<40	20	2
4,6-Dinitro-2-methylphenol	ND<100	20	5	2,4-Dinitrophenol	ND<100	20	5
2,4-Dinitrotoluene	ND<100	20	5	2,6-Dinitrotoluene	ND<100	20	5
Di-n-octyl phthalate	ND<200	20	10	1,2-Diphenylhydrazine	ND<20	20	1
Fluoranthene	ND<20	20	1	Fluorene	ND<200	20	10
Hexachlorobenzene	ND<20	20	1	Hexachlorobutadiene	ND<20	20	1
Hexachlorocyclopentadiene	ND<100	20	5	Hexachloroethane	ND<20	20	1
Indeno(1,2,3-cd)pyrene	ND<200	20	10	Isophorone	ND<20	20	1
Naphthalene	ND<20	20	1	Nitrobenzene	ND<20	20	1
2-Nitrophenol	ND<200	20	10	4-Nitrophenol	ND<200	20	10
N-Nitrosodimethylamine	ND<100	20	5	N-Nitrosodiphenylamine	ND<20	20	1
N-Nitrosodi-n-propylamine	ND<100	20	5	Pentachlorophenol	ND<100	20	5
Phenanthrene	ND<100	20	5	Phenol	ND<20	20	1
Pyrene	ND<200	20	10	1,2,4-Trichlorobenzene	ND<100	20	5
2,4,6-Trichlorophenol	ND<200	20	10				

Surrogate Recoveries (%)

%SS1:	---	%SS2:	---
%SS3:	98.5	%SS4:	105
%SS5:	104	%SS6:	72.7

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/l., soil/sludge/solid samples in mg/kg., wipe samples in ug/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.

Edward Hamilton, Lab Director