



# General Services Agency

Darlene Smith, Director

## ENGINEERING & ENVIRONMENTAL MANAGEMENT DEPARTMENT

4400 MACARTHUR BOULEVARD  
OAKLAND, CA 94619  
(510) 535-6209

### FAX COVER SHEET

FAX NO: (510) 535-6225  
(510) 535-6245

DATE: April 26, 1994

TO:

COMPANY: ALAMEDA E.H.  
ATTN: Scott Seerly  
FAX: 562-4357  
TEL. NO: \_\_\_\_\_

FROM: Pete Kinney 535-6280

COMMENTS:

UST 11-12 STOCK PILE DATA YOU  
REQUESTED  
PLU

COVER SHEET PLUS 6 PAGES TO FOLLOW

Results of secondary tests (5 samples) on stock piled, previously-excavated material.

8/14/93  
sampling



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OAKLAND, CA 94619  
(510) 535-6209

### FAX COVER SHEET

FAX NO: (510) 535-6225  
(510) 535-6245

DATE: April 26, 1994

TO:

COMPANY: Alameda E.H.  
ATTN: Scott Seely  
FAX: 510-4757  
TEL. NO: \_\_\_\_\_

FROM: Pete Kinney 535-6280

COMMENTS:

UST 11-12 STOCK PILE DATA YOU  
REQUESTED  
Pick

COVER SHEET PLUS  PAGES TO FOLLOW



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OAKLAND, CA 94619  
(510) 535-6209

## FAX COVER SHEET

FAX NO: (510) 535-6225  
(510) 535-6245

DATE: April 26, 1994

TO:

COMPANY: Alameda E.H.  
ATTN: Scott Seerly  
FAX: 569-4157  
TEL. NO: \_\_\_\_\_

FROM: Pete Kinney 535-6280

COMMENTS:

UST 11-12 STOCK PILE DATA Now  
REQUESTED  
PLK

COVER SHEET PLUS <sup>10</sup>  PAGES TO FOLLOW

AG NEJ 306

DATE AUGUST 14, 1993 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

PROJECT NAME ALAMEDA CO. GSA

ADDRESS OLD GRAYSTONE  
SANTA RITA CORRECTIONAL FACILITY  
REDWOOD, CA

PROJECT NO. 6-93-5077

SAMPLED BY [Signature] BART MILLER

LAB NAME MCCAMPBELL ANALYTICAL

ANALYSES TO BE PERFORMED

MATRIX

MATRIX  
NUMBER OF CONTAINERS

SAMPLE #	DATE	TIME	LOCATION	TOTAL O.G.	STANDARD 5526	TPH-2	500.5m	SVOCs	BTIC	METALS (Cd, Cr, Pb, Zn)	MUCs	RELIC
SP-43	8/14/93	10:57	STUCKALE	X	X	X	X	X	X	X		
SP-44	"	10:21	"	X	X	X	X	X	X	X		
SP-45	"	10:09	"	X	X	X	X	X	X	X		
SP-46	"	10:02	"	X	X	X	X	X	X	X		
SP-47	"	9:57	"	X	X	X	X	X	X	X		



Environmental Science & Engineering, Inc.

4090 Nelson Avenue Suite J Concord, CA 94520

Phone (510) 665-4053

Fax (510) 665-5323

REMARKS (CONTAINER, SIZE, ETC.)

2" diam. brass sleeves

31725

31726

31727

31728

31729

ICE?  PRESERVATIVE GOOD CONDITION  APPROPRIATE HEAD SPACE ABSENT  CONTAINERS

RELINQUISHED BY: (signature)

RECEIVED BY: (signature)

date time

TOTAL NUMBER OF CONTAINERS

- [Signature]
- [Signature]
- [Signature]
- 
- 

- [Signature]
- [Signature]
- [Signature]
- 
- 

- 8/14/93 12:00
- 8/14/93 0800
- 8/14/93 10:07
- 
- 

REPORT RESULTS TO: BART MILLER, ESE PETER KIMMEL, GSA

SPECIAL SHIPMENT REQUIREMENTS

COLD TRANSPORT

SAMPLE RECEIPT

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):

Normal T.A.T. \*may contain asphalt fragments. Avoid if possible.

CHAIN OF CUSTODY SEALS

REC'D GOOD COND'TN/COLD

CONFORMS TO RECORD

SEP 02 1993

APR-26-1994 TUE 10:33 ID:ALP00 GEN SUC AGENCY TEL NO:510/535-6225 HSE4 P02

<b>McCAMPBELL ANALYTICAL INC.</b>	<b>110 2nd Avenue South, #D7, Pacheco, CA 94553</b> <b>Tele: 510-798-1620 Fax: 510-798-1622</b>
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Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6-93-5077; Alameda Co. GSA	Date Sampled: 08/14/93
	Client Contact: Bart Miller, Pete Kinney	Date Received: 08/16/93
	Client P.O: Alameda County 141-0-7925-00	Date Extracted: 08/16/93
		Date Analyzed: 08/16-08/17/93

**LUFT Metals\***

EPA analytical methods				239.2,7420 <sup>a</sup>	213.1,7130	218.1,7190	249.1,7520	289.1,7950
Lab ID	Client ID	Matrix	Extraction <sup>b</sup>	Lead <sup>c</sup>	Cadmium <sup>c</sup>	Chromium <sup>c</sup>	Nickel <sup>c</sup>	Zinc <sup>c</sup>
31725	SP-43	S	TTLC	6.6	ND	49	36	73
31726	SP-44	S	TTLC	6.6	ND	46	32	69
31727	SP-45	S	TTLC	4.6	ND	47	34	75
31728	SP-46	S	TTLC	ND	ND	34	21	110
31729	SP-47	S	TTLC	8.6	ND	44	30	78
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.005mg/L	0.05	0.25	0.10	0.05	
	S	TTLC	4.0 mg/kg	1.0	5.0	2.0	1.0	
	—	STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05	

<sup>a</sup> soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

<sup>b</sup> Lead is analyzed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

<sup>c</sup> EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

DHS Certification No. 1644

*EH* Edward Hamilton, Lab Director

SEP 02 1993

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553  
Tele: 510-798-1620 Fax 510-798-1622

Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: #6-93-5077; Alameda Co. GSA		Date Sampled: 08/14/93	
	Client Contact: Bart Miller, Pete Kinney		Date Received: 08/16/93	
	Client P.O: Alameda County 141-0-7925-00		Date Extracted: 08/16/93	
			Date Analyzed: 08/16/93	
<b>Volatile Halocarbons</b>				
EPA method 601 or 8010				
Lab ID	31725	31726	31727	31728
Client ID	SP-43	SP-44	SP-45	SP-46
Matrix	S	S	S	S
Compound <sup>(1)</sup>	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND	ND	ND	ND
Bromoform <sup>(2)</sup>	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Carbon Tetrachloride <sup>(3)</sup>	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether <sup>(4)</sup>	ND	ND	ND	ND
Chloroform <sup>(5)</sup>	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
cis 1,2-Dichloroethene	ND	ND	ND	ND
trans 1,2-Dichloroethene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
cis 1,3-Dichloropropane	ND	ND	ND	ND
trans 1,3-Dichloropropane	ND	ND	ND	ND
Methylene Chloride <sup>(6)</sup>	ND< 100	ND< 100	ND< 100	ND< 100
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
Tetrachloroethene <sup>(7)</sup>	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
Vinyl Chloride <sup>(8)</sup>	ND	ND	ND	ND
% Recovery Surrogate	97	93	98	94
<b>Comments</b>				
Detection limit unless otherwise stated: water, ND< 0.5ug/L; soil, ND< 50ug/kg				
* water samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L				
(1) IUPAC allows "fene" or "ene"; ex. ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichloromethane; (6) dichloromethane; (7) perchloroethylene, PCE or perclor; (8) chloroethene; (9) unidentified peak(s) present.				

DHS Certification No. 1644

Edward Hamilton, Lab Director

<b>MCCAMPBELL ANALYTICAL INC.</b>	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax 510-798-1622
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Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6-93-5077; Alameda Co. GSA	Date Sampled: 08/14/93
	Client Contact: Bart Miller, Pete Kinney	Date Received: 08/16/93
	Client P.O: Alameda County 141-0-7925-00	Date Extracted: 08/16/93
		Date Analyzed: 08/16/93

**Volatile Halocarbons**

EPA method 601 or 8010				
Lab ID	31729			
Client ID	SP-47			
Matrix	S			
<b>Compound<sup>(1)</sup></b>	<b>Concentration*</b>	<b>Concentration*</b>	<b>Concentration*</b>	<b>Concentration*</b>
Bromodichloromethane	ND			
Bromoform <sup>(2)</sup>	ND			
Bromomethane	ND			
Carbon Tetrachloride <sup>(3)</sup>	ND			
Chlorobenzene	ND			
Chloroethane	ND			
2-Chloroethyl Vinyl Ether <sup>(4)</sup>	ND			
Chloroform <sup>(5)</sup>	ND			
Chloromethane	ND			
Dibromochloromethane	ND			
1,2-Dichlorobenzene	ND			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND			
1,1-Dichloroethane	ND			
1,2-Dichloroethane	ND			
1,1-Dichloroethene	ND			
cis 1,2-Dichloroethene	ND			
trans 1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
Methylene Chloride <sup>(6)</sup>	ND < 100			
1,1,2,2-Tetrachloroethane	ND			
Tetrachloroethene <sup>(7)</sup>	ND			
1,1,1-Trichloroethane	ND			
1,1,2-Trichloroethane	ND			
Trichloroethene	ND			
Trichlorofluoromethane	ND			
Vinyl Chloride <sup>(8)</sup>	ND			
% Recovery Surrogate	95			
Comments				

Detection limit unless otherwise stated: water, ND < 0.5ug/L; soil, ND < 50ug/kg.  
 \* water samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L.  
 (1) IUPAC allows "ylene" or "ene", ex. ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichloromethane; (6) dichloromethane; (7) perchloroethylene, PCE or perclor; (8) chloroethene; (9) unidentified peak(s) present.

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Environmental Science & Eng 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6-93-5077; Alameda Co. GSA	Date Sampled: 08/14/93	
	Client Contact: Bart Miller, Pete Kinney	Date Received: 08/16/93	
	Client P.O.: Alameda County 141-0-7925-00	Date Extracted: 08/18/93	
		Date Analyzed: 08/18/93	
<b>Petroleum Oil &amp; Grease (with Silica Gel Clean-up) *</b> EPA methods 413.1, 9070 or 9071; Standard Methods 5520 B/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids			
Lab ID	Client ID	Matrix	Oil & Grease
31725	SP-43	S	120
31726	SP-44	S	98
31727	SP-45	S	130
31728	SP-46	S	110
31729	SP-47	S	190
Detection Limit unless other- wise stated; ND means Not Detected		W	5 mg/L
		S	50 mg/kg
*water samples are reported in mg/L and soils in mg/kg			

DHS Certification No. 1644

Edward Hamilton, Lab Director



SEP 02 1993

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Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6-93-5077; Alameda Co. GSA	Date Sampled: 08/14/93
		Date Received: 08/16/93
	Client Contact: Bart Müller, Pete Kinney	Date Extracted: 08/17/93
	Client P.O: Alameda County 141-0-7925-00	Date Analyzed: 08/17/93

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \***  
EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) <sup>†</sup>	% Recovery Surrogate
31725	SP-43	S	14.g	110
31726	SP-44	S	26.g/c?	105
31727	SP-45	S	ND	100
31728	SP-46	S	ND	103
31729	SP-47	S	25.g	110
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	
		S	10 mg/kg	

\*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

<sup>#</sup> cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

<sup>†</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell 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) modified diesel?; light (cr.) or heavy (cr.) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (Stoddard's solvent?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

DHS Certification No. 1644


 Edward Hamilton, Lab Director

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-43  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-01A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX)  
 GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS  
 BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	108-60-1	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330

ND - Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-43  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-01A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

ND - Not Detected

## American Environmental Network

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## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-43  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-01A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-44  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-02A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX)  
 GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS  
 BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	108-60-1	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-14  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-02A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-40  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-02A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-45  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-03A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX)  
 GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS  
 BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzdine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)Fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	108-60-1	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330

ND = Not Detected



## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-45  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-03A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

ND = Not Detected

McCAMPBELL ANALYTICAL

SAMPLE ID: ~~SP-45~~  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-03A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-46  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-04A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX)  
 GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS  
 BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	108-60-1	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	105-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-46  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-04A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-46  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-04A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-47  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-05A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX)  
 GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS  
 BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	108-60-1	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-47  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-05A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indano(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

ND = Not Detected

## McCAMPBELL ANALYTICAL

SAMPLE ID: SP-47  
 CLIENT PROJ. ID: 6-93-5077  
 DATE SAMPLED: 08/14/93  
 DATE RECEIVED: 08/16/93  
 REPORT DATE: 08/30/93

AEN LAB NO: 9308171-05A  
 AEN JOB NO: 9308171  
 DATE EXTRACTED: 08/19/93  
 DATE ANALYZED: 08/23/93  
 INSTRUMENT: 11

EPA METHOD 8270  
 ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

ND = Not Detected



## QUALITY CONTROL DATA

DATE ANALYZED: 08/23/93

AEN JOB NO: 9308171

CLIENT PROJ. ID: 6-93-5077

INSTRUMENT: 11

## SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8270  
(SOIL MATRIX)

Date Extracted	SAMPLE IDENTIFICATION		Nitro- benzene-d <sub>5</sub>	SURROGATE			RECOVERY (PERCENT)		
	Client Id.	Lab Id.		2-Fluoro- biphenyl	Terphenyl- d <sub>14</sub>	Phenol-d <sub>5</sub>	2-Fluoro- phenol	2,4,6-Tribromo- phenol	
08/19/93	SP-43	01A	61.2	81.7	78.2	42.5	69.2	63.6	
08/19/93	SP-44	02A	40.0	70.9	92.1	44.8	43.8	68.4	
08/19/93	SP-45	03A	51.1	69.2	71.5	51.7	48.6	64.5	
08/19/93	SP-46	04A	47.9	79.9	93.1	40.9	54.1	74.6	
08/19/93	SP-47	05A	48.3	68.1	66.7	49.2	55.9	59.0	

## CURRENT QC LIMITS (REVISED 01/08/92)

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
Nitrobenzene-d <sub>5</sub>	(23-120)
2-Fluorobiphenyl	(30-118)
Terphenyl-d <sub>14</sub>	(18-137)
Phenol-d <sub>5</sub>	(24-113)
2-Fluorophenol	(25-121)
2,4,6-Tribromophenol	(19-122)

## QUALITY CONTROL DATA

DATE EXTRACTED: 08/17/93  
 DATE ANALYZED: 08/17/93  
 CLIENT PROJ. ID: 6-93-5077

AEN JOB NO: 9308171  
 SAMPLE SPIKED: 9308060-09A  
 INSTRUMENT: 11

MATRIX SPIKE RECOVERY SUMMARY  
 METHOD 8270  
 (SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Phenol	3570	ND	2040	2440	62.7	17.9
2-Chlorophenol	3450	ND	2020	1890	56.7	6.6
1,4-Dichlorobenzene	3070	ND	1750	1690	56.0	3.5
N-Nitroso-di-n-propylamine	3270	ND	2060	2350	67.4	13.2
1,2,4-Trichlorobenzene	2950	ND	1730	1840	60.5	6.2
4-Chloro-3-methylphenol	3570	ND	3230	3590	95.5	10.6
Acenaphthene	3020	ND	2590	2850	90.1	9.6
4-Nitrophenol	4830	ND	2630	2680	55.0	1.9
2,4-Dinitrotoluene	3050	ND	2450	2450	80.3	0.0
Pentachlorophenol	5370	ND	2540	2820	49.9	10.4
Pyrene	2880	ND	3070	2850	102.8	7.4

## CURRENT QC LIMITS (Revised 01/08/92)

Analyte	Percent Recovery	RPD
Phenol	(35- 81)	33
2-Chlorophenol	(28- 88)	26
1,4-Dichlorobenzene	(28- 81)	9
N-Nitroso-di-n-propylamine	(27- 83)	20
1,2,4-Trichlorobenzene	(30- 82)	22
4-Chloro-3-methylphenol	(31-104)	28
Acenaphthene	(30-101)	17
4-Nitrophenol	( 7-102)	32
2,4-Dinitrotoluene	(26- 86)	24
Pentachlorophenol	(11- 94)	41
Pyrene	(23-128)	23

MS = Matrix Spike  
 MSD = Matrix Spike Duplicate  
 RPD = Relative Percent Difference  
 ND = Not Detected