



Environmental Science & Engineering, Inc.

Supplemental Suoc/HUO analysis reports for soil samples 13 and 14 overexcavation, UST 11, 12, 12A, "Old Graystone" - missing from original March 1993 ESE CAP report

F A C S I M I L E

DATE: January 5, 1995

TIME: 16:30

TO: Scott Seery  
Alameda County  
Health Care Services Agency  
Hazardous Materials Division  
1131 Harbor Bay Parkway  
Alameda, CA 94502

FROM: Bart Miller  
ESE, Inc.  
4090 Nelson Avenue, Ste J  
Concord, CA 94520

FAX #: (510) 337-9335

JOB #: 6-93-5074

SUBJECT: OLD GRAYSTONE AREA, SANTA RITA CORRECTIONAL FACILITY, DUBLIN, CALIFORNIA

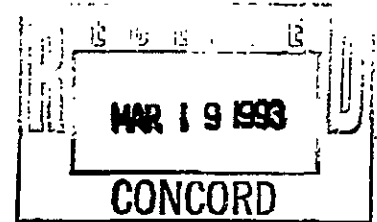
Number of Pages (Including this Cover Sheet): 27

ADDITIONAL MESSAGE:

Scott:  
  
Attached are the results you recently requested. In an attempt to ensure completeness of County records, I have taken the liberty of forwarding two complete laboratory analytical reports. Hope I didn't overheat your fax machine?  
  
Talk With You Soon.  
  
Bart

If you have any questions, please call us immediately at (510) 685-4053.

McCAMPBELL ANALYTICAL INC.

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

03/08/93

Dear Peter/Pat:

Enclosed are:

- 1). the results of 6 samples from your Alameda Co. GSA; Santa Rita Jail, Old Greystone; #6-93-5036 project,
- 2). a QC report for the above samples, and
- 3). a copy of the chain of custody.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

A handwritten signature in dark ink, appearing to read "Ed Hamilton". The signature is fluid and cursive, written over a horizontal line.

Edward Hamilton

Lab Director of McCampbell Analytical







McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

County of Alameda General Services Agency 4400 MacArthur Blvd. Oakland, CA 94619	Client Project ID: Alameda Co. GSA; Santa Rita Jail, Old Greystone; #6-93-5036	Date Sampled: 03/01/93
	Client Contact: Peter Kinney, Pat Galvin (ESE)	Date Received: 03/02/93
	Client P.O:	Date Extracted: 03/04/93
		Date Analyzed: 03/04/93

## Volatile Halocarbons

EPA method 601 or 8010

Lab ID	21672			
Client ID	13			
Matrix	S			
Compound <sup>(1)</sup>	Concentration*	Concentration*	Concentration*	Concentration*
Chloromethane	ND			
Vinyl Chloride <sup>(2)</sup>	ND			
Bromomethane	ND			
Chloroethane	ND			
Trichlorofluoromethane	ND			
1,1-Dichloroethene	ND			
Methylene Chloride <sup>(3)</sup>	ND			
trans 1,2-Dichloroethene	ND			
1,1-Dichloroethane	ND			
cis 1,2-Dichloroethene	ND			
Chloroform <sup>(4)</sup>	ND			
1,1,1-Trichloroethane	ND			
Carbon Tetrachloride <sup>(5)</sup>	ND			
1,2-Dichloroethane	ND			
Trichloroethene	ND			
1,2-Dichloropropane	ND			
Bromodichloromethane	ND			
2-Chloroethyl Vinyl Ether <sup>(6)</sup>	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
1,1,2-Trichloroethane	ND			
Tetrachloroethene <sup>(7)</sup>	ND			
Dibromochloromethane	ND			
Chlorobenzene	ND			
Bromoform <sup>(8)</sup>	ND			
1,1,2,2-Tetrachloroethane	ND			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND			
1,2-Dichlorobenzene	ND			

Detection limit unless otherwise stated: water, ND &lt; 0.5ug/L; soil, ND &lt; 30ug/kg.

\* water samples are reported in ug/L and soils in ug/kg

(1) IUPAC allows "ylene" or "ene"; ex. ethylene or ethene; (2) chloroethene; (3) dichloromethane; (4) trichloromethane; (5) tetrachloromethane; (6) (2-chloroethoxy) ethene; (7) perchlorethylene or pcclor; (8) trihalomethane; (9) unidentified peak(s) present.

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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

## QC REPORT

Date: 03/04-03/08/93

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	2.084	1.848	2.03	103	91	12.0
Benzene	0.000	0.200	0.184	0.2	100	92	8.3
Toluene	0.000	0.200	0.188	0.2	100	94	6.2
Ethyl Benzene	0.000	0.194	0.184	0.2	97	92	5.3
Xylenes	0.000	0.580	0.536	0.6	97	89	7.9
TPH (diesel)	0	301	303	300	100	101	0.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$


DATE MARCH 1, 1993 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

ANALYSIS

PROJECT NAME ALAMEDA CO. GSA  
 ADDRESS SANTA RITA JAIL  
OLD GRAYSTONE  
 PROJECT NO. 6-93-5036  
 SAMPLED BY [Signature] BART MILLER  
 LAB NAME McC Campbell Analytical

ANALYSES TO BE PERFORMED								MATRIX	
TPH-G (8015m)	BTEX (3020)	TPH-D (8015 M)	SVOCs (8270)	HVOCs (8010)	TOTAL O-G, SS, 20E			MATRIX	MATRIX
✓	✓							Soil	
✓	✓							"	
✓	✓							"	
✓	✓							"	
✓	✓	✓	✓	✓	✓			"	



Environmental Science & Engineering, Inc.  
 4093 Nelson Avenue Suite J  
 Concord, CA 94520  
 (415) 685-4053  
 Fax (415) 685-5323

REMARKS (CONTAINER, SIZE, ETC.)
No. 21667
No. 21668
No. 21669
No. 21670
No. 21671
No. 21672

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time	L	TOTAL NUMBER OF CONTAINERS
<u>[Signature]</u>	<u>[Signature]</u>	3/2/93	0700		
2. <u>[Signature]</u>	<u>[Signature]</u>	3/2/93	4:17pm		
3.					
4.					
5.					

GOOD CONDITION ✓  
 HEADSPACE ABSENT ✓  
 APPROPRIATE CONTAINERS ✓

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.): <u>Regular Turnaround, Direct Client Billing with Pete Kinney, Alameda County GSA, 4400 Northshore Bl., Oakland 94619, (510) 535-6280.</u>	CHAIN OF CUSTODY SEALS
	REC'D GOOD CONDITN/COLD
	CONFORMS TO RECORD

01/05/95 16:33  
 510 685 5323  
 ESE, INC. CON  
 008/027



## Quanteq Laboratories

PAGE 2 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 13  
 CLIENT PROJ. ID: 977  
 DATE SAMPLED: 03/01/93  
 DATE RECEIVED: 03/03/93  
 REPORT DATE: 03/15/93

QUANTEQ LAB NO: 9303031-01A  
 QUANTEQ JOB NO: 9303031  
 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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

## Quanteq Laboratories

PAGE 3 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 13  
 CLIENT PROJ. ID: 977  
 DATE SAMPLED: 03/01/93  
 DATE RECEIVED: 03/03/93  
 REPORT DATE: 03/15/93

QUANTEQ LAB NO: 9303031-01A  
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 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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

## Quanteq Laboratories

PAGE 4 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 13  
 CLIENT PROJ. ID: 977  
 DATE SAMPLED: 03/01/93  
 DATE RECEIVED: 03/03/93  
 REPORT DATE: 03/15/93

QUANTEQ LAB NO: 9303031-01A  
 QUANTEQ JOB NO: 9303031  
 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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

## Quanteq Laboratories

PAGE 5 OF 6

## QUALITY CONTROL DATA

DATE ANALYZED: 03/08/93

QUANTEQ JOB NO: 9303031

CLIENT PROJ. ID: 977

INSTRUMENT: 11

## SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8270  
(SOIL MATRIX)

Date Extracted	SAMPLE IDENTIFICATION			SURROGATE			RECOVERY (PERCENT)		
	Client Id.	Lab Id.	Nitro- benzene-d <sub>5</sub>	2-Fluoro- biphenyl	Terphenyl- d <sub>14</sub>	Phenol-d <sub>5</sub>	2-Fluoro- phenol	2,4,6-Tribrom- phenol	
03/04/93	13	01A	77.2	78.0	96.2	82.6	74.7	82.0	

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

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
Nitrobenzene-d <sub>5</sub>	(23-120)
2-Fluorobiphenyl	(30-115)
Terphenyl-d <sub>14</sub>	(18-137)
Phenol-d <sub>5</sub>	(24-113)
2-Fluorophenol	(25-121)
2,4,6-Tribromophenol	(19-122)

## Quanteq Laboratories

PAGE 6 OF 6

## QUALITY CONTROL DATA

DATE EXTRACTED: 03/01/93  
 DATE ANALYZED: 03/03/93  
 CLIENT PROJ. ID: 977

QUANTEQ JOB NO: 9303031  
 SAMPLE SPIKED: 9302199-02A  
 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	3330	ND	2410	2670	76.3	10.2
2-Chlorophenol	3330	ND	2600	2940	83.2	12.3
1,4-Dichlorobenzene	3400	ND	2140	2240	64.4	4.6
N-Nitroso-di-n-propylamine	3320	ND	2500	2930	81.8	15.8
1,2,4-Trichlorobenzene	3330	ND	2430	2620	75.8	7.5
4-Chloro-3-methylphenol	3270	ND	2850	3020	89.8	5.8
Acenaphthene	3330	530	2790	3150	73.3	12.1
4-Nitrophenol	3300	ND	3200	3500	101.5	9.0
2,4-Dinitrotoluene	3330	ND	2530	2640	77.6	4.3
Pentachlorophenol	3380	ND	3020	3320	93.8	9.5
Pyrene	3320	ND	2430	2560	75.0	5.6

## 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

R-4, S-A

Routine 9303031

# CHAIN OF CUSTODY RECORD

**McCAMPBELL ANALYTICAL**

110 2nd AVENUE, # D7  
PACHECO, CA 94653

(510) 798-1820 FAX (510) 798-1822

TURN AROUND TIME:  RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: Ed Hamilton MAT BILL TO: MAT

PROJECT NUMBER: 977 PROJECT NAME: AC/OG

PROJECT LOCATION: \_\_\_\_\_ SAMPLER SIGNATURE: \_\_\_\_\_

ANALYSIS REQUEST										OTHER	
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**McCAMPBELL ANALYTICAL INC.**110 2nd Avenue South, #D7, Pacheco, CA 94553  
Tele: 510-798-1620 Fax: 510-798-1622

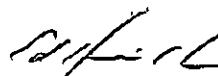
03/08/93

**Dear Peter/Pat:****Enclosed are:**

- 1). the results of 9 samples from your Alameda Co. GSA; Santa Rita Jail, Old Greystone; #6-93-5036 project,
- 2). a QC report for the above samples, and
- 3). a copy of the chain of custody.

**If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.**

Yours truly,



Edward Hamilton

Lab Director of McCampbell Analytical









McCAMPBELL ANALYTICAL INC.

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

County of Alameda General Services Agency 4400 MacArthur Blvd. Oakland, CA 94619	Client Project ID: Alameda Co. GSA; Santa Rita Jail, Old Greystone; #6-93-5036	Date Sampled: 03/02/93
	Client Contact: Peter Kinney, Pat Galvin (ESE)	Date Received: 03/03/93
	Client P.O:	Date Extracted: 03/04/93
		Date Analyzed: 03/04/93

## Volatile Halocarbons

EPA method 601 or 8010

Lab ID	21673			
Client ID	14			
Matrix	S			
Compound <sup>(1)</sup>	Concentration*	Concentration*	Concentration*	Concentration*
Chloromethane	ND			
Vinyl Chloride <sup>(2)</sup>	ND			
Bromomethane	ND			
Chloroethane	ND			
Trichlorofluoromethane	ND			
1,1-Dichloroethene	ND			
Methylene Chloride <sup>(3)</sup>	ND			
trans 1,2-Dichloroethene	ND			
1,1-Dichloroethane	ND			
cis 1,2-Dichloroethene	ND			
Chloroform <sup>(4)</sup>	ND			
1,1,1-Trichloroethane	ND			
Carbon Tetrachloride <sup>(5)</sup>	ND			
1,2-Dichloroethane	ND			
Trichloroethene	ND			
1,2-Dichloropropane	ND			
Bromodichloromethane	ND			
2-Chloroethyl Vinyl Ether <sup>(6)</sup>	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
1,1,2-Trichloroethane	ND			
Tetrachloroethene <sup>(7)</sup>	ND			
Dibromochloromethane	ND			
Chlorobenzene	ND			
Bromoform <sup>(8)</sup>	ND			
1,1,2,2-Tetrachloroethane	ND			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND			
1,2-Dichlorobenzene	ND			

Detection limit unless otherwise stated: water, ND &lt; 0.5ug/L; soil, ND &lt; 30ug/kg.

\* water samples are reported in ug/L and soils in ug/kg

(1) IUPAC allows "ylene" or "ene"; ex. ethylene or ethene; (2) chloroethene; (3) dichloromethane; (4) trichloromethane; (5) tetrachloromethane; (6) (2-chloroethoxy) ethene; (7) perchloroethylene or perchlor; (8) tribromomethane; (9) unidentified peak(s) present.

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tel: 510-798-1620 Fax: 510-798-1622
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## QC REPORT

Date: 03/04-03/08/93

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	2.084	1.848	2.03	103	91	12.0
Benzene	0.000	0.200	0.184	0.2	100	92	8.3
Toluene	0.000	0.200	0.188	0.2	100	94	6.2
Ethyl Benzene	0.000	0.194	0.184	0.2	97	92	5.3
Xylenes	0.000	0.580	0.536	0.6	97	89	7.9
TPH (diesel)	0	301	303	300	100	101	0.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

DATE MARCH 2, 1993 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

ANALS, 8

PROJECT NAME ALAMEDA CO. GSA

ADDRESS SANTA RITA JAIL

OLD GRAYSTONE

PROJECT NO. 6-93-5036

SAMPLED BY [Signature] BART MILLER

LAB NAME \_\_\_\_\_

ANALYSES TO BE PERFORMED										MATRIX	CONTAINER NUMBER OF	REMARKS (CONTAINER, SIZE, ETC.)
TPH-G (8015m)	BTEX (8020)	8270	8010	TPH-D (8015-)	TOG (5320DIF)					MATRIX		
✓	✓	✓	✓	✓	✓					SOIL	1	CAPILLARY FRINGE
✓	✓									"	1	"
✓	✓									"	1	10' BELOW GRADE
✓	✓									"	1	"
✓	✓									"	1	"
✓	✓									"	1	CAPILLARY FRINGE (RETAKE OF SAMPLE 4)
✓	✓									"	1	10' BELOW GRADE
✓	✓									"	1	"
✓	✓									"	1	"
										"	1	"
										"	1	"



Environmental Science & Engineering, Inc.

4790 Nelson Avenue  
Suite J  
Concord, CA 94520

(415) 685-4053  
Fax (415) 685-3323

No. 21673  
No. 21674  
No. 21675  
No. 21676  
No. 21677  
No. 21678

RELINQUISHED BY: (signature) 1. <u>[Signature]</u>	RECEIVED BY: (signature) <u>[Signature]</u>	date 3/3	time 10:07am	9	TOTAL NUMBER OF CONTAINERS
2.					
3.					
4.					
5.					
INSTRUCTIONS TO LABORATORY (handling, analysis): NORMAL T.A.T. (per client instructions)				REPORT RESULTS TO: PATRICK GALVIN	SPECIAL SHIPMENT REQUIREMENTS COLD TRANSPORT
				SAMPLE RECEIPT	
				CHAIN OF CUSTODY SEALS	
				REC'D GOOD COND'TN/COLD	
				CONFORMS TO RECORD	

01/05/95 16:36 2510 885 5323 ESE, INC. CON 021/027

## Quanteq Laboratories

PAGE 2 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 14  
 CLIENT PROJ. ID: 978  
 DATE SAMPLED: 03/02/93  
 DATE RECEIVED: 03/03/93  
 REPORT DATE: 03/15/93

QUANTEQ LAB NO: 9303032-01A  
 QUANTEQ JOB NO: 9303032  
 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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

## Quanteq Laboratories

PAGE 3 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 14  
 CLIENT PROJ. ID: 978  
 DATE SAMPLED: 03/02/93  
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QUANTEQ LAB NO: 9303032-01A  
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 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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

## Quanteq Laboratories

PAGE 4 OF 6

## McCAMPBELL ANALYTICAL

SAMPLE ID: 14  
 CLIENT PROJ. ID: 978  
 DATE SAMPLED: 03/02/93  
 DATE RECEIVED: 03/03/93  
 REPORT DATE: 03/15/93

QUANTEQ LAB NO: 9303032-01A  
 QUANTEQ JOB NO: 9303032  
 DATE EXTRACTED: 03/04/93  
 DATE ANALYZED: 03/08/93  
 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



## Quanteq Laboratories

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## QUALITY CONTROL DATA

DATE ANALYZED: 03/08/93

QUANTEQ JOB NO: 9303032

CLIENT PROJ. ID: 978

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
03/04/93	14	01A	54.7	60.4	99.9	57.4	54.5	70.1

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

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
Nitrobenzene-d <sub>5</sub>	(23-120)
2-Fluorobiphenyl	(30-115)
Terphenyl-d <sub>14</sub>	(18-137)
Phenol-d <sub>5</sub>	(24-113)
2-Fluorophenol	(25-121)
2,4,6-Tribromophenol	(19-122)

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## QUALITY CONTROL DATA

DATE EXTRACTED: 03/01/93  
 DATE ANALYZED: 03/03/93  
 CLIENT PROJ. ID: 978

QUANTEQ JOB NO: 9303032  
 SAMPLE SPIKED: 9302199-02A  
 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	3330	ND	2410	2670	76.3	10.2
2-Chlorophenol	3330	ND	2600	2940	83.2	12.3
1,4-Dichlorobenzene	3400	ND	2140	2240	64.4	4.6
N-Nitroso-di-n-propylamine	3320	ND	2500	2930	81.8	15.8
1,2,4-Trichlorobenzene	3330	ND	2430	2620	75.8	7.5
4-Chloro-3-methylphenol	3270	ND	2850	3020	89.8	5.8
Acenaphthene	3330	530	2790	3150	73.3	12.1
4-Nitrophenol	3300	ND	3200	3500	101.5	9.0
2,4-Dinitrotoluene	3330	ND	2530	2640	77.6	4.3
Pentachlorophenol	3380	ND	3020	3320	93.8	9.5
Pyrene	3320	ND	2430	2560	75.0	5.6

## 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

