



**APPLICATION FOR RECLASSIFICATION OF
HAZARDOUS SOIL**

**Berth 30
Port of Oakland
Oakland, California**

VOLUME 2 - APPENDIX B

Prepared for

**Port of Oakland
530 Water Street
Oakland, California**

**March 1993
Project No. 2026.06**

Geomatrix Consultants

APPENDIX B

**CHAIN-OF-CUSTODY RECORDS, REQUEST FOR ANALYSIS FORMS,
AND ANALYTICAL LABORATORY REPORTS**

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
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Clayton
ENVIRONMENTAL
CONSULTANTS

December 15, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92120.86

Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 7, 1992. On December 8, 1992 we were requested by facsimile to analyze a portion of the samples submitted. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/caa
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-29
Lab Number: 9212086-25B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Prepared: 12/12/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	2-29	Date Sampled:	12/05/92
Lab Number:	9212086-25B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
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for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-29
Lab Number: 9212086-25B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Prepared: 12/12/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	92	81 - 117
Bromofluorobenzene	460-00-4	90	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	2-34	Date Sampled:	12/05/92
Lab Number:	9212086-30B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
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Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-34	Date Sampled: 12/05/92
Lab Number: 9212086-30B	Date Received: 12/07/92
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
 for
 Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
 Clayton Project No. 92120.86

Sample Identification:	2-34	Date Sampled:	12/05/92
Lab Number:	9212086-30B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	102	70 - 121
Toluene-d8	2037-26-5	97	81 - 117
Bromofluorobenzene	460-00-4	86	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212086-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212086-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212086-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
<u>Surrogates</u>			<u>LCL</u> <u>UCL</u>
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	99	81 - 117
Bromofluorobenzene	460-00-4	98	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	2-29	Date Sampled:	12/05/92
Lab Number:	9212086-25B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/09/92
Extraction Method:	EPA 3550	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	5
Pentachlorophenol	87-86-5	ND	5
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
Benzyl alcohol	100-51-6	ND	2
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-29
Lab Number: 9212086-25B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Extracted: 12/09/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Benzoic acid	65-85-0	ND	4
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	ND	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	ND	1
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	1
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	ND	1
Dibenzofuran	132-64-9	ND	1

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	2-29	Date Sampled:	12/05/92
Lab Number:	9212086-25B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/09/92
Extraction Method:	EPA 3550	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	ND	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	ND	1
Anthracene	120-12-7	ND	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	ND	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	ND	1
Benzylbutylphthalate	85-68-7	ND	1
3,3'-dichlorobenzidine	91-94-1	ND	30
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND Not detected at or above limit of detection
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 * Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-29
Lab Number: 9212086-25B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Extracted: 12/09/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1

<u>Surrogates</u>	CAS #	<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	20*	25	121
Phenol-d6	13127-88-3	22*	24	113
Nitrobenzene-d5	4165-60-0	16*	23	120
2-Fluorobiphenyl	321-60-8	35	30	115
2,4,6-Tribromophenol	118-79-6	24	19	122
Terphenyl-d14	98904-43-9	30	18	137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	2-34	Date Sampled:	12/05/92
Lab Number:	9212086-30B	Date Received:	12/07/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/09/92
Extraction Method:	EPA 3550	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	5
Pentachlorophenol	87-86-5	ND	5
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
Benzyl alcohol	100-51-6	ND	2
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-34
Lab Number: 9212086-30B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Extracted: 12/09/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Benzoic acid	65-85-0	ND	4
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	ND	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	ND	1
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	1
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	2	1
Dibenzofuran	132-64-9	1	1

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-34	Date Sampled: 12/05/92
Lab Number: 9212086-30B	Date Received: 12/07/92
Sample Matrix/Media: SOIL	Date Extracted: 12/09/92
Extraction Method: EPA 3550	Date Analyzed: 12/12/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	2	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	5	1
Anthracene	120-12-7	1	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	3	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	2	1
Benzylbutylphthalate	85-68-7	ND	1
3,3'-dichlorobenzidine	91-94-1	ND	30
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-34
Lab Number: 9212086-30B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/05/92
Date Received: 12/07/92
Date Extracted: 12/09/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	89	25 - 121
Phenol-d6	13127-88-3	138*	24 - 113
Nitrobenzene-d5	4165-60-0	108	23 - 120
2-Fluorobiphenyl	321-60-8	158*	30 - 115
2,4,6-Tribromophenol	118-79-6	141*	19 - 122
Terphenyl-d14	98904-43-9	149*	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limits due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212086-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/09/92
Extraction Method:	EPA 3550	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK
Lab Number: 9212086-44A
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: --
Date Received: --
Date Extracted: 12/09/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212086-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/09/92
Extraction Method:	EPA 3550	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212086-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/09/92
Extraction Method: EPA 3550	Date Analyzed: 12/12/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	70	25 - 121
Phenol-d6	13127-88-3	80	24 - 113
Nitrobenzene-d5	4165-60-0	88	23 - 120
2-Fluorobiphenyl	321-60-8	96	30 - 115
2,4,6-Tribromophenol	118-79-6	83	19 - 122
Terphenyl-d14	98904-43-9	80	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-17	Date Sampled: 12/05/92
Lab Number: 9212086-13B	Date Received: 12/07/92
Sample Matrix/Media: SOIL	Date Extracted: 12/10/92
Extraction Method: EPA 3550	Date Analyzed: 12/10/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.06	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.16	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.29	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-17	Date Sampled: 12/05/92
Lab Number: 9212086-13B	Date Received: 12/07/92
Sample Matrix/Media: SOIL	Date Extracted: 12/10/92
Extraction Method: EPA 3550	Date Analyzed: 12/10/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	114	24 - 150
Dibutylchloroendate	1770-80-5	109	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212086-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/10/92
Extraction Method:	EPA 3550	Date Analyzed:	12/10/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK
Lab Number: 9212086-44A
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: --
Date Received: --
Date Extracted: 12/10/92
Date Analyzed: 12/10/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	87	24 - 150
Dibutylchlorendate	1770-80-5	87	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-8
Lab Number: 9212086-04
Sample Matrix/Media: SOIL

Date Sampled: 12/04/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	50	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.5	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	5.4	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-9
Lab Number: 9212086-05
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	48	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.0	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	6.8	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-16
Lab Number: 9212086-12
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	5	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	11	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	41	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	5.9	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-17
Lab Number: 9212086-13
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	45	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	210	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	0.8	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	8.0	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-21
Lab Number: 9212086-17
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	93	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	49	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	91	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	0.8	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	4.4	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-24
Lab Number: 9212086-20
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	83	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	96	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	9.9	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-26
Lab Number: 9212086-22
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	87	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	41	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.8	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	4.1	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-29
Lab Number: 9212086-25
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	86	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	47	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.0	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	4.7	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 2-34
Lab Number: 9212086-30
Sample Matrix/Media: SOIL

Date Sampled: 12/05/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	4	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	85	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	42	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	7.7	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 3-1
Lab Number: 9212086-37
Sample Matrix/Media: SOIL

Date Sampled: 12/06/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Barium	85	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Copper	71	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Lead	100	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Nickel	26	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	--a			--	--	--	--
TCLP Lead	--a			--	--	--	--
Thallium	8	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

a) Data will be available 12/17/92

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: METHOD BLANK
Lab Number: 9212086-44
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/11/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/10/92	12/10/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/11/92	12/14/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 12/0/92

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL
Berth 30
Port of Oakland
Project No. 2026.06**



Page 1 of 1

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments	
9212086-03A 2-2	12/4/92	10:45	2797	total CAM 17 metals; WET-Pb; TCLP-Pb, RCI	Homogenize entire tube before analysis	
9212086-04A 2-8	12/4/92	23:59	2797	total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-05A 2-9	12/5/92	0:20	2797	total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-12A 2-16	12/7/92	10:10		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-13A 2-17	12/7/92	10:25		total CAM 17 metals WET-Pb; TCLP-Pb; 8080		
9212086-17A 2-21	12/7/92	13:05		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-20A 2-24	12/7/92	14:15		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-22A 2-26	12/7/92	17:40		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-25A 2-29	12/7/92	18:40		total CAM 17 metals WET-Pb; TCLP-Pb; 8240; 8270		Full 8240 sample first, then homogenize entire sample (as appropriate for 8270) before KSH
9212086-30A 2-34	12/7/92	20:05		total CAM 17 metals WET-Pb; TCLP-Pb; 8240; 8270		
Turnaround time: 5 days				Results to: Elizabeth Wells		

- Requested by EK Wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignitability

Date 12/1/92Page 1 of 1

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL
Berth 30
Port of Oakland
Project No. 2026.06**

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212086-37A (3-1)	12/6/92	00:40	3523	total CAM 17 metals; WET-Pb; TECP-Pb	Homogenize entire sample before analysis.
9212104-06A (3-13)	12/7/92	21:45	3411	total CAM 17 metals; WET-Pb; TECP-Pb; 8240; 8270	Pull 8240 Sample first; then homogenize entire sample (as appropriate for 8270) before tests.
9212101--07A (3-14)	12/8/92	01:25	3411	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212109-14A (3-21)	12/8/92	03:25	3410	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212109-19A (3-24)	12/8/92	13:50	3410	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212101-20A (3-27)	12/8/92	14:20	3410	total CAM 17 metals; WET-Pb; TECP-Pb; RCI.	
9212152-02A (3-29)	12/8/92	19:50	3409	total CAM 17 metals; WET-Pb; TECP-Pb; 8000	
9212152-03A (3-30)	12/8/92	20:45	3409	total CAM 17 metals; WET-Pb; TECP-Pb	
9212152-08A (3-35)	12/9/92	01:20	3409	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212152-09A (3-36)	12/9/92	03:15	3409	total CAM 17 metals; WET-Pb; TECP-Pb; 8240; 8270.	
Turnaround time: 5 days				Results to: Elizabeth K. Wells.	

- Requested by EK Wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignifability
- Bill the Port of Oakland directly

Chain-of-Custody Record

No 3521

Date: 12/4/92

Page 1 of 1

Project No: 2026.06			ANALYSES												REMARKS									
Samplers (Signatures): <i>[Signatures]</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD														Additional comments
Date	Time	Sample Number																						
12/4	19:00	2-5								X											X	S		B.II Bot of Oakland directly.
	20:15	2-6								X											X	S		
	23:30	2-7								X											X	S		
	23:59	2-8								X											X	S		
12/5	0:20	2-9								X											X	S		
	0:30	2-10								X											X	S		
	08:30	2-11								X											X	S		
	08:50	2-12								X											X	S		
	09:10	2-13								X											X	S		
	09:25	2-14								X											X	S		
	09:45	2-15								X											X	S		
	10:10	2-16								X											X	S		


Turnaround time:

HOLD

Results to:

Elizabeth K. Wells

Total No. of containers:

Relinquished by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Date: 12/7/92	Relinquished by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Date: 12/7/92	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: <i>[Method]</i> Laboratory comments and Log No: <i>[Comments]</i> 9212086
Received by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Time: 16:00	Received by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Time: 17:00	Received by: Signature: Printed name: Company:	Time:	 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400/

Chain-of-Custody Record

No. 2798

Date: 12/5/92

Page 2 of 2

Project No.: 2026.06 I			ANALYSES										REMARKS					
Samplers (Signatures): <i>M. Blanks</i> <i>James M. Carolan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX					Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																
12/5	10:25	2-17							X					X	S		1	Bill Port of Oakland Directly
	10:45	2-18							X					X	S		1	
	11:10	2-19							X					X	S		1	
	11:55	2-20							X					X	S		1	
	13:05	2-21							X					X	S		1	
	13:25	2-22							X					X	S		1	
	13:50	2-23							X					X	S		1	
	14:15	2-24							X					X	S		1	
	15:50	2-25							X					X	S		1	
	17:40	2-26							X					X	S		1	
	18:00	2-27							X					X	S		1	
	18:20	2-28							X					X	S		1	

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: Signature: <i>James M. Carolan</i> Printed name: JIM CAROLAN Company: Geomatrix	Date: 12/17/92	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/17/92	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: Lab Pickup
Received by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 1600	Received by: Signature: <i>T. Alton</i> Printed name: T ALTON Company: CLAYTON	Time: 1700	Received by: Signature: Printed name: Company:	Time:	Laboratory comments and Log No.: Rec'd 2x4 BC condok 9212086

Geomatrix Consultants
100 Pine St. 10th Floor
San Francisco, CA. 94111
(415) 434-9400

Chain-of-Custody Record

No. 2799

Date: 12/5/92

Page 3 of 3

Project No.: 2026.06 I.			ANALYSES												REMARKS		
Samplers (Signatures): James M. Carolan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD			Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number															
12/5/92	18:40	2-29								X			X	S		1	Bill Port of Oakland Directly
	19:00	2-30								X			X	S		1	
	19:15	2-31								X			X	S		1	
	19:35	2-32								X			X	S		1	
	19:50	2-33								X			X	S		1	
	20:05	2-34								X			X	S		1	
	20:20	2-35								X			X	S		1	
	20:50	2-36								X			X	S		1	
	21:20	2-37								X			X	S		1	
	22:50	2-38								X			X	S		1	
	23:15	2-39								X			X	S		1	
	23:30	2-40								X			X	S		1	

Turnaround time: HOLD Results to: Elizabeth Wells Total No. of containers: 12

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
Signature: James M Carolan	12/7/92	Signature: Jim Mitchell	12/5/92	Signature:		Lab pickup
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Printed name:		Laboratory comments and Log No.: Rec'd 2x4BC Condor
Company: Geomatrix		Company: CLAYTON ENV.		Company:		9212086
Received by:	Time:	Received by:	Time:	Received by:	Time:	
Signature: Jim Mitchell	16:00	Signature: T. ALTON	17:00	Signature:		
Printed name: JIM MITCHELL		Printed name: T. ALTON		Printed name:		
Company: CLAYTON ENV		Company: CLAYTON		Company:		

Geomatrix Consultants
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

Chain-of-Custody Record

No. 3523


Date: 12/6/92

Page 4 of 4

Project No.: 2026.06 I			ANALYSES													REMARKS													
Samplers (Signatures): <i>James M Card</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD															Additional comments				
Date	Time	Sample Number																									Additional comments		
12/6	00:40	3-1								X													X	S	1	Bill Port of Oakland Directly			
	00:55	3-2								X												X	S	1					
	01:35	3-3								X												X	S	1					
	01:50	3-4								X												X	S	1					
12/7	13:45	3-5								X												X	S	1					
12/7	15:16	3-6								X												X	S	1					
12/7	15:50	3-7								X												X	S	1					

37A
38
51
10
11
12
13

Turnaround time: **HOLID** Results to: **Elizabeth Wells** Total No. of containers: **7**

Relinquished by:		Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
Signature: <i>James M Card</i>		12/7/92	Signature: <i>Jim Mitchell</i>	12/7/92	Signature:	12/7/92	Lab Pick up
Printed name: Jim Carden			Printed name: JIM MITCHELL		Printed name:		Laboratory comments and Log No.:
Company: Geomatrix			Company: CLAYTON ENV.		Company:		Rec'd 2x4 BE Condok
Received by:		Time:	Received by:	Time:	Received by:	Time:	9212086
Signature: <i>Jim Mitchell</i>		1600	Signature: <i>ST. ALTON</i>	1700	Signature:		 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400
Printed name: JIM MITCHELL			Printed name: ST. ALTON		Printed name:		
Company: CLAYTON ENV.			Company: CLAYTON		Company:		

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 15, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06 I
Clayton Project No. 92120.64

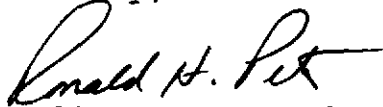
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 4, 1992. On December 8, 1992 we were requested by facsimile to analyze sample 2-2. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/caa
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92120.64

Sample Identification: 2-2
Lab Number: 9212064-03
Sample Matrix/Media: SOIL

Date Sampled: 12/04/92
Date Received: 12/04/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Barium	98	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Copper	41	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Ignitability	N.I.	—	Degrees F	—	12/08/92	—	SW 7.1.2
Lead	98	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Mercury	0.9	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
pH	8.9	—	S.U.	—	12/08/92	—	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	—	12/15/92	—	EPA 9010
Reactive Sulfide	<10	10	mg/kg	—	12/11/92	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
STLC Lead	6.3	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92120.64

Sample Identification: METHOD BLANK
Lab Number: 9212064-05
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Cobalt	<0.1	0.1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/15/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/11/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/09/92	12/11/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/09/92	12/10/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/09/92	12/10/92	EPA 3050	EPA 6010

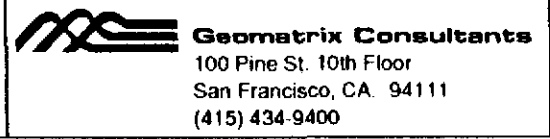
ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Chain-of-Custody Record No 2797 Date: 12/04/92 Page 1 of 1

Project No.: 2036.06 I			ANALYSES													REMARKS			
Samplers (Signatures): <i>James M. Arize</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD				Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments <i>Bill Port of Oakland Directly</i>	
Date	Time	Sample Number																	
12/4	10:00	2-1								X				X	S		1		
12/4	14:45	2-3								X				X	S		1		
12/4	10:45	2-2								X				X	S		1		
12/4	15:30	2-4								X				X	S		1		

Turnaround time: *HOLD* Results to: *Elizabeth Wells* Total No. of containers: *4*

Relinquished by: <i>JAMES M. ARIZE</i> Signature: <i>[Signature]</i> Printed name: <i>JAMES M. ARIZE</i> Company: <i>GEOMETRIX</i>	Date: <i>12/4/92</i>	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV</i>	Date: <i>12/4/92</i>	Relinquished by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Date: <i>12/4/92</i>	Method of shipment: <i>Lab Pickup</i>
Received by: Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV</i>	Time: <i>1645</i>	Received by: Signature: <i>Tracy B Bullard</i> Printed name: <i>TRACY B</i> Company: <i>C.E.C.</i>	Time: <i>1735</i>	Received by: Signature: <i>[Signature]</i> Printed name: <i>[Name]</i> Company: <i>[Company]</i>	Time: <i>[Time]</i>	Laboratory comments and Log No.: <i>2x4BC</i> <i>ok</i>



Date 12/8/92

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL
Berth 30
Port of Oakland
Project No. 2026.06**



Page 1 of 1

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments	
9212086-03A 2-2	12/4/92	10:45	2797	total CAM 17 metals; WET-Pb; TCLP-Pb, RCI	Homogenize entire tube before analysis	
9212086-04A 2-8	12/4/92	23:59	2797	total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-05A 2-9	12/5/92	0:20	2797	total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-12A 2-16	12/7/92	10:10		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-13A 2-17	12/7/92	10:25		total CAM 17 metals WET-Pb; TCLP-Pb; 8080		
9212086-17A 2-21	12/7/92	13:05		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-20A 2-24	12/7/92	14:15		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-22A 2-26	12/7/92	17:40		total CAM 17 metals WET-Pb; TCLP-Pb		
9212086-25A 2-29	12/7/92	18:40		total CAM 17 metals WET-Pb; TCLP-Pb; 8240; 8270		Pur 8240 sample first; then homogenize entire sample (as appropriate for 8270) before KSts
9212086-30A 2-34	12/7/92	20:05		total CAM 17 metals WET-Pb; TCLP-Pb; 8240; 8270		
Turnaround time: 5 days				Results to: Elizabeth Wells		

- Requested by EK Wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignitability

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 16, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92121.52

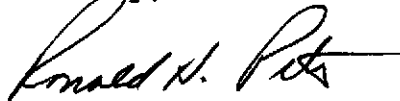
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 9, 1992. On December 10, 1992 you requested analyses on selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-29	Date Sampled: 12/08/92
Lab Number: 9212152-02B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.07	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.12	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.22	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	3-29	Date Sampled:	12/08/92
Lab Number:	9212152-02B	Date Received:	12/09/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
---------	-------	--------------------------	----------------------------------

Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	102	24	150
Dibutylchloroendate	1770-80-5	99	20	150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36
Lab Number: 9212152-09B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/09/92
Date Received: 12/09/92
Date Prepared: 12/12/92
Date Analyzed: 12/12/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	0.008	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36	Date Sampled: 12/09/92
Lab Number: 9212152-09B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.006	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.007	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36	Date Sampled: 12/09/92
Lab Number: 9212152-09B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	102	70 - 121
Toluene-d8	2037-26-5	98	81 - 117
Bromofluorobenzene	460-00-4	89	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212152-15B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212152-15B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212152-15B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	99	81 - 117
Bromofluorobenzene	460-00-4	98	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36	Date Sampled: 12/09/92
Lab Number: 9212152-09B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36	Date Sampled: 12/09/92
Lab Number: 9212152-09B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	3	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	2	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
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* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36	Date Sampled: 12/09/92
Lab Number: 9212152-09B	Date Received: 12/09/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	3	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	2	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	2	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
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 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	3-36	Date Sampled:	12/09/92
Lab Number:	9212152-09B	Date Received:	12/09/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	73	25	121
Phenol-d6	13127-88-3	82	24	113
Nitrobenzene-d5	4165-60-0	94	23	120
2-Fluorobiphenyl	321-60-8	139*	30	115
2,4,6-Tribromophenol	118-79-6	32	19	122
Terphenyl-d14	98904-43-9	117	18	137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212152-15B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
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Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212152-15B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212152-15B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212152-15B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	58	25	121
Phenol-d6	13127-88-3	72	24	113
Nitrobenzene-d5	4165-60-0	80	23	120
2-Fluorobiphenyl	321-60-8	91	30	115
2,4,6-Tribromophenol	118-79-6	59	19	122
Terphenyl-d14	98904-43-9	74	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-29
Lab Number: 9212152-02
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/09/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	88	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	64	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	90	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	35	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	5.7	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-30
Lab Number: 9212152-03
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/09/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	81	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	100	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	97	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.8	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	26	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	9.6	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-35
Lab Number: 9212152-08
Sample Matrix/Media: SOIL

Date Sampled: 12/09/92
Date Received: 12/09/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	69	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	97	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	7.5	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 3-36
Lab Number: 9212152-09
Sample Matrix/Media: SOIL

Date Sampled: 12/09/92
Date Received: 12/09/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	98	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	35	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	87	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	7.4	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: METHOD BLANK
Lab Number: 9212152-15
Sample Matrix/Media: SOIL

Date Sampled: —
Date Received: —

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**




Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212086-37A (3-1)	12/6/92	00:40	3523	total CAM 17 metals; WET-Pb; TECP-Pb	Homogenize entire sample before analysis.
9212109-06A (3-13)	12/7/92	21:45	3411	total CAM 17 metals; WET-Pb; TECP-Pb; B240; B270	Pull B240 sample first; then homogenize entire sample (as appropriate for B270) before tests.
9212101-09A (3-14)	12/8/92	01:25	3411	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212109-14A (3-21)	12/8/92	03:25	3410	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212109-19A (3-24)	12/8/92	13:50	3410	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212101-20A (3-27)	12/8/92	14:20	3410	total CAM 17 metals; WET-Pb; TECP-Pb; RCI.	
9212152-02A (3-29)	12/8/92	19:50	3409	total CAM 17 metals; WET-Pb; TECP-Pb; B080	
9212152-03A (3-30)	12/8/92	20:45	3409	total CAM 17 metals; WET-Pb; TECP-Pb	
9212152-08A (3-35)	12/9/92	01:20	3409	total CAM 17 metals; WET-Pb; TECP-Pb.	
9212152-09A (3-36)	12/9/92	03:15	3409	total CAM 17 metals; WET-Pb; TECP-Pb; B240; B270.	
Turnaround time: 5 days				Results to: Elizabeth K. Wells.	

- Requested by EK Wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignitability
- B.H. the P.A. of Oakland directly

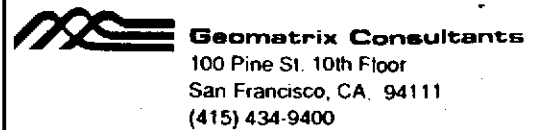
Chain-of-Custody Record No **3409** Date: **12/8/92** Page **1** of **2**

Project No.: <i>2026 06 I</i>			ANALYSES																	REMARKS				
Samplers (Signatures): <i>Jeffrey & Jean</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD										Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																						
01	12/8	17:30	3-28								X										X	U	1	Bill Port of Oakland directly
02		19:50	3-29								X										X	U	1	
03		20:45	3-30								X										X	U	1	
04		21:20	3-31								X										X	U	1	
05		21:50	3-32								X										X	U	1	
06		22:50	3-33								X										X	U	1	
07		23:30	3-34								X										X	U	1	
08	12/9	01:20	3-35								X										X	U	1	
09		03:15	3-36								X										X	U	1	
10		03:55	3-37								X										X	U	1	
11		04:05	3-38								X										X	U	1	
			Turnaround time: <i>Hold</i>							Results to: <i>Elizabeth Wells</i>							Total No. of containers: <i>11</i>							

Relinquished by: Signature: <i>Jeffrey & Jean</i> Printed name: JEFFREY HASAN Company: GEOMATRIX	Date: <i>12/9/92</i>	Relinquished by:	Date: <i>12/9/92</i>	Relinquished by:	Date: <i>12/9/92</i>	Relinquished by:	Date: <i>12/9/92</i>	Method of shipment: <i>Pick up</i>
		Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON
Received by:	Time: <i>1625</i>	Received by:	Time: <i>1725</i>	Received by:	Time: <i>1725</i>	Received by:	Time: <i>1725</i>	 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400
Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON		Signature: <i>James E. Alton</i> Printed name: JAMES E. ALTON Company: CLAYTON		

9212152

Chain-of-Custody Record			No 3406				Date: 12/9/92			Page 2 of 2												
Project No.: 2026.06J			ANALYSES							REMARKS												
Samplers (Signatures): Jeffrey Hasan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX													Additional comments:
Date	Time	Sample Number										Cooled	Soil (S) or water (W)	Acidified	Number of containers							
12/9	13:40	4-1										X	S		1						Bill Port of Oakland directly	
13	↓	14:40										X	S		1							
14	↓	15:40										X	S		1							
			Turnaround time: Hold				Results to: Elizabeth Wells				Total No. of containers: 3											
Relinquished by:			Date:	Relinquished by:				Date:	Relinquished by:				Date:	Method of shipment:								
Signature: Jeffrey Hasan			12/9/92	Signature: Jim Mitchell				12/9/92	Signature:					Pick up								
Printed name: JEFFREY HASAN				Printed name: JIM MITCHELL					Printed name:					Laboratory comments and Log No.:								
Company: GEOMATRIX				Company: CLAYTON ENV.					Company:					249 BC 9212152								
Received by:			Time:	Received by:				Time:	Received by:				Time:									
Signature: Jim Mitchell			1625	Signature: JAMIE R ALTON				1725	Signature:													
Printed name: JIM MITCHELL				Printed name: JAMIE R ALTON					Printed name:													
Company: CLAYTON ENV.				Company: CLAYTON					Company:													



Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0706

Clayton
ENVIRONMENTAL
CONSULTANTS

December 16, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06I
Clayton Project No. 92121.09

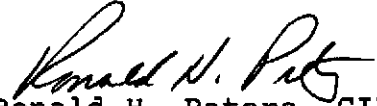
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 8, 1992. On December 10, 1992 you requested analyses on selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,


Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-13	Date Sampled: 12/07/92
Lab Number: 9212109-06B	Date Received: 12/08/92
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	3-13	Date Sampled:	12/07/92
Lab Number:	9212109-06B	Date Received:	12/08/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.009	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.012	0.005
o-Xylene	95-47-6	0.006	0.005
Acetone	67-64-1	0.03	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	3-13	Date Sampled:	12/07/92
Lab Number:	9212109-06B	Date Received:	12/08/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/12/92
Preparation Method:	EPA 5030	Date Analyzed:	12/12/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	100	70 - 121
Toluene-d8	2037-26-5	96	81 - 117
Bromofluorobenzene	460-00-4	86	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212109-21B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212109-21B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212109-21B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/12/92
Preparation Method: EPA 5030	Date Analyzed: 12/12/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)	
<u>Purgeable Organics (continued)</u>				
Carbon disulfide	75-15-0	ND	0.005	
Styrene	100-42-5	ND	0.005	
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
1,2-Dichloroethane-d4	17060-07-0	103	70	121
Toluene-d8	2037-26-5	102	81	117
Bromofluorobenzene	460-00-4	103	74	121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	3-13	Date Sampled:	12/07/92
Lab Number:	9212109-06B	Date Received:	12/08/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-13	Date Sampled: 12/07/92
Lab Number: 9212109-06B	Date Received: 12/08/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	8	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	2	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	3	2
Dibenzofuran	132-64-9	2	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	3-13	Date Sampled:	12/07/92
Lab Number:	9212109-06B	Date Received:	12/08/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	3	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	8	2
Anthracene	120-12-7	2	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	3	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	2	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-13	Date Sampled: 12/07/92
Lab Number: 9212109-06B	Date Received: 12/08/92
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	83	25	121
Phenol-d6	13127-88-3	99	24	113
Nitrobenzene-d5	4165-60-0	111	23	120
2-Fluorobiphenyl	321-60-8	145*	30	115
2,4,6-Tribromophenol	118-79-6	46	19	122
Terphenyl-d14	98904-43-9	117	18	137

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212109-21B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212109-21B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212109-21B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/14/92
Extraction Method: EPA 3550	Date Analyzed: 12/15/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212109-21B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/14/92
Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	58	25 - 121
Phenol-d6	13127-88-3	72	24 - 113
Nitrobenzene-d5	4165-60-0	80	23 - 120
2-Fluorobiphenyl	321-60-8	91	30 - 115
2,4,6-Tribromophenol	118-79-6	59	19 - 122
Terphenyl-d14	98904-43-9	74	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-13
Lab Number: 9212109-06
Sample Matrix/Media: SOIL

Date Sampled: 12/07/92
Date Received: 12/08/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	78	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	53	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	79	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.8	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	4.9	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-16
Lab Number: 9212109-09
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/08/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	73	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	66	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	76	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	2.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	4.5	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-21
Lab Number: 9212109-14
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/08/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	72	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	35	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	65	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	2.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	6.8	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	100	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-26
Lab Number: 9212109-19
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/08/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	240	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	75	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.7	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	34	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	5.0	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: 3-27
Lab Number: 9212109-20
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/08/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	91	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	37	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Ignitability	--a	--	Degrees F	--	--	--	--
Lead	84	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
pH	11.1	--	S.U.	--	12/11/92	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/14/92	--	EPA 9010
Reactive Sulfide	--a	--	mg/kg	--	--	--	--
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	6.6	0.1	mg/L	12/07/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	5	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
--a Data will be available on 12/17/92

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK
Lab Number: 9212109-21
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/14/92	--	EPA 9010
Reactive Sulfide	--a	--	mg/kg	--	--	--	--
Selenium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
--a Data will be available on 12/17/92

Date 12/1/92Page 1 of 1

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**



Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212086-37A (3-1)	12/6/92	00:40	3523	total cam 17 metals; WET-Pb; TECP-Pb	Homogenize entire sample before analysis.
9212109-06A (3-13)	12/7/92	21:45	3411	total cam 17 metals; WET-Pb; TECP-Pb; B240; B270	Pull B240 sample first; then homogenize entire sample (as appropriate for B270) before tests.
9212101-09A (3-14)	12/8/92	01:25	3411	total cam 17 metals; WET-Pb; TECP-Pb.	
9212109-14A (3-21)	12/8/92	03:25	3410	total cam 17 metals; WET-Pb; TECP-Pb.	
9212109-19A (3-24)	12/8/92	13:50	3410	total cam 17 metals; WET-Pb; TECP-Pb.	
9212109-20A (3-27)	12/8/92	14:20	3410	total cam 17 metals; WET-Pb; TECP-Pb; RCI.	
9212152-02A (3-29)	12/8/92	19:50	3409	total cam 17 metals; WET-Pb; TECP-Pb; B240	
9212152-03A (3-30)	12/8/92	20:45	3409	total cam 17 metals; WET-Pb; TECP-Pb	
9212152-08A (3-35)	12/9/92	01:20	3409	total cam 17 metals; WET-Pb; TECP-Pb.	
9212152-09A (3-36)	12/9/92	03:15	3409	total cam 17 metals; WET-Pb; TECP-Pb; B240; B270.	Pull B240 sample first; then homogenize entire sample (as appropriate for B270) before tests.
Turnaround time: 5 days				Results to: Elizabeth K. Wells.	

- Requested by EK Wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignitability
- Bill the Port of Oakland directly

2026
 Project
 12/1/92

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212086-03A 2-2	12/4/92	10:45	2797	total CAM 17 metals; WET-Pb; TCLP-Pb, RCI	Monoglyceride culture tube before analysis
9212086-04A 2-8	12/4/92	23:59	2797	total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-05A 2-9	12/5/92	0:20	2797	total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-12A 2-16	12/7/92	10:10		total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-13A 2-17	12/7/92	10:25		total CAM 17 metals WET-Pb; TCLP-Pb; B080	
9212086-17A 2-21	12/7/92	13:05		total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-20A 2-24	12/7/92	14:15		total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-22A 2-26	12/7/92	17:40		total CAM 17 metals WET-Pb; TCLP-Pb	
9212086-25A 2-29	12/7/92	18:40		total CAM 17 metals WET-Pb; TCLP-Pb; B240; B270	
9212086-30A 2-34	12/7/92	20:05		total CAM 17 metals WET-Pb; TCLP-Pb; B240; B270	
Turnaround time: 5 days				Results to: Elizabeth Wells	

- Requested by EK wells
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, ignitability
- Bill the Port of Oakland directly

Chain-of-Custody Record


No **3411**

Date: **12/8/92**

Page 1 of 2

Project No.: 2026.06 I			ANALYSES														REMARKS								
Samplers (Signatures): <i>Jeffrey Hager James M Carah</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD											Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																							
12/7	19:30	3-8								X												S		1	Bill Port of Oakland directly
	19:55	3-9								X												S		1	
	20:20	3-10								X												S		1	
	20:50	3-11								X												S		1	
	21:20	3-12								X												S		1	
	21:45	3-13								X												S		1	
	22:15	3-14								X												S		1	
✓	22:45	3-15								X												S		1	
12/8	01:25	3-16								X												S		1	
	01:55	3-17								X												S		1	
	02:20	3-18								X												S		1	
↓	02:40	3-19								X												S		1	

Turnaround time: **Hold** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: Signature: <i>James M Carah</i> Printed name: Jim Carah Company: Geomatrix	Date: 12/8/92	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/8/92	Relinquished by:	Date:	Method of shipment: Pickup Laboratory comments and Log No.: 9212109
Received by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 12/8/92	Received by: Signature: <i>Tammi R. Alton</i> Printed name: TAMMI R. ALTON Company: CLAYTON ENV.	Time: 1715	Received by:	Time:	Received by: <i>Rec'd by 4 BC Condok</i>  Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434-9400


Chain-of-Custody Record

No. 3410

Date: 12/8/92

Page 2 of 2

Project No.: 2026.06 I			ANALYSES													REMARKS										
Samplers (Signatures): Jeffrey Hagen James M. Law			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD											Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments	
Date	Time	Sample Number																								
12/8	03:05	3-20								X															Bill Part of Oakland directly.	
	03:25	3-21								X																
	03:50	3-22								X																
	04:55	3-23								X																
	10:40	3-24								X																
	11:30	3-25								X																
	13:50	3-26								X																
	14:20	3-27								X																
Turnaround time: HOLD			Results to: Elizabeth Wells						Total No. of containers: 8																	

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
Signature: James M. Law	12/8/92	Signature: Jim Mitchell	12/8/92	Signature:		Pickup.
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Printed name:		Laboratory comments and Log No.: 9212109
Company: Geomatrix		Company: CLAYTON ENV.		Company:		
Received by:	Time:	Received by:	Time:	Received by:	Time:	Rec'd 2-4 BC Cond OK
Signature: Jim Mitchell	1610	Signature: Tammi R Alton	1715	Signature:		 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434-9400
Printed name: JIM MITCHELL		Printed name: TAMMI R ALTON		Printed name:		
Company: CLAYTON ENV.		Company: CLAYTON ENV.		Company:		

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 16, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

ADDITIONAL REPORT
Client Ref. 2026.06
Clayton Project No. 92120.86

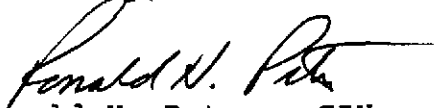
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 7, 1992. On December 10, 1992 you requested analyses on selected samples. All samples were completed and reported on December 15, 1992 with the exception of TCLP and STLC Lead on sample 3-1. Those results are presented in this report.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,


Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/caa
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92120.86

Sample Identification: 3-1
Lab Number: 9212086-37
Sample Matrix/Media: SOIL

Date Sampled: 12/06/92
Date Received: 12/07/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Barium	85	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Copper	71	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Lead	100	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.4	0.1	mg/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Nickel	26	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	6.5	0.1	mg/L	12/11/92	12/16/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/11/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 5, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

ADDITIONAL REPORT
Client Ref. 2026.06
Clayton Project No. 92122.70

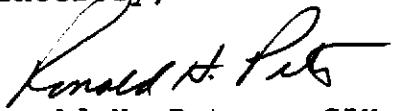
Dear Ms. Wells:

Attached is our additional analytical laboratory report for the samples received on December 8, 1992. On December 18, 1992 you requested STLC mercury analysis on samples 3-16 and 3-21. Those results are presented in this report. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,


Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.70

Sample Matrix/Media: SOIL
Preparation Method: CAM WET
Analysis Method: EPA 7470

Date Received: 12/08/92
Date Prepared: 12/18/92
Date Analyzed: 12/28/92

Lab Number	Sample Identification	Date Sampled	STLC Mercury (mg/L)	Detection Limit (mg/L)
01A	3-16	12/08/92	<0.01	0.01
02A	3-21	12/08/92	<0.01	0.01
03A	METHOD BLANK	--	<0.01	0.01

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Quality Assurance Results Summary
for
Clayton Project No. 92122.70

Clayton Lab Number: 9212270-01A
Ext./Prep. Method: EPA7470
Date: 12/28/92
Analyst: JSL
Std. Source: A92100701W
Sample Matrix/Media: STLC

Analytical Method: EPA7470
Instrument ID: 05583
Date: 12/28/92
Time: 4 :
Analyst: JSL
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result								
MERCURY	ND	0.100	0.114	114	114	0.108	108	111	52	133	5.4	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Date 12/18/92

REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL



Page 1 of 1

Berth 30
Port of Oakland
Project No. 2026.06

9212270

~~9212269~~

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
3-16	12/8/92	01:25	3410	WET-Hg	Homogenize extract before analysis
3-21	12/8/92	03:25	3410	WET-Hg	↓
[The remainder of the table is crossed out with a large diagonal line.]					
Turnaround time: Standard 2 week TAT				Results to: Elizabeth Wells	

OIA
OZA

- Requested by EK Wells
- Bill Port of Oakland Directly
- Use all EPA Methods



Chain-of-Custody Record

No. **3411**

Date: **12/8/92**

Project No.: **2026.06 I**
 Samplers (Signatures):
Jeffrey Hagan
James M Caron

			ANALYSES																		
Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD								Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/7	19:30	3-8								X									S		1
	19:55	3-9								X									S		1
	20:20	3-10								X									S		1
	20:50	3-11								X									S		1
	21:20	3-12								X									S		1
	21:45	3-13								X									S		1
	22:15	3-14								X									S		1
	22:45	3-15								X									S		1
12/8	01:25	3-16								X									S		1
	01:55	3-17								X									S		1
	02:20	3-18								X									S		1
	02:40	3-19								X									S		1

REMARKS

Additional comments

Bill Part of Oakland directly

Turnaround time: **Hold**

Results to: **Elizabeth Wells**

Total No. of containers: **12**

Relinquished by:
 Signature: *James M Caron*
 Printed name: **JIM CARON**
 Company: **Geomatrix**

Date: **12/10/92**
 Relinquished by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Date: **12/18/92**
 Relinquished by:
 Signature:
 Printed name:
 Company:

Date:
 Method of shipment: **Pickup**
 Laboratory comments and Log No.:
9212109


Received by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Date: **12/15/92**
 Received by:
 Signature: *Thami R. Alton*
 Printed name: **TAMMI R. ALTON**
 Company: **CLAYTON ENV.**

Date: **12/15/92**
 Received by:
 Signature:
 Printed name:
 Company:

Time:
 Signature:
 Printed name:
 Company:

Rec'd 2x4 EC Cond ok

 **Geomatrix Consultants**
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

01A
02
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Project No.: 2026.06 I			ANALYSES												REMARKS		
Samplers (Signatures): <i>Jeffrey Hagen</i> <i>James M Law</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD			Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number															
12/8	03:05	3-20								X				S		1	Bill Port of Oakland directly.
	03:25	3-21								X				S		1	
	03:50	3-22								X				S		1	
	04:55	3-23								X				S		1	
	10:40	3-24								X				S		1	
	11:30	3-25								X				S		1	
	13:50	3-26								X				S		1	
	14:20	3-27								X				S		1	

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **8**

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
<i>James M Law</i>	12/8/92	<i>Jim Mitchell</i>	12/8/92			Pick up.
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Signature:		Laboratory comments and Log No: 0982109
Company: Geomatrix		Company: CLAYTON ENV.		Printed name:		
Received by:	Time:	Received by:	Time:	Received by:	Time:	
<i>Jim Mitchell</i>	1610	<i>Tammi R Alton</i>	1715			Rec'd 2/4/93 Cond OK
Printed name: JIM MITCHELL		Printed name: TAMMI R ALTON		Signature:		
Company: CLAYTON ENV.		Company: CLAYTON ENV.		Printed name:		
				Company:		

Geomatrix Consultants
100 Pine St. 10th Floor
San Francisco, CA. 94111
(415) 434-9400

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

FACSIMILE COVER SHEET

TO: Tim Wood TIME: _____

COMPANY: Geomatrix

FROM: Suzanne Silveira CLIENT PROJECT NO.: _____

DATE: 2/15/93 FAX NUMBER: 415-434-1365

Number of Pages (including cover sheet): 4

Please confirm Receipt: () Yes No

If you do not receive the number of pages specified, please call (510) 426-2600 for assistance.

COMMENTS

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 17, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.061
Clayton Project No. 92121.09

Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 8, 1992. On December 10, 1992 you requested analyses on selected samples.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

BHP/tb
Attachments

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 92121.09

Sample Identification: 3-27
Lab Number: 9212109-20
Sample Matrix/Media: SOIL

Date Sampled: 12/08/92
Date Received: 12/08/92

Analyte	Concentration	Detection		Date Prepared	Date Analyzed	Prep Method	Analysis Method
		Limit	Units				
Antimony	3	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	6	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	91	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	22	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	7	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	37	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Ignitability	NI	—	Degrees F	—	12/17/92	—	SW 7.1.2
Lead	84	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	ng/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	28	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
PH	11.1	—	S.U.	—	12/11/92	—	EPA 9045
Reactive Cyanide	<0.3	0.3	ng/kg	—	12/14/92	—	EPA 9010
Reactive Sulfide	<10	10	ng/kg	—	12/17/92	—	SW 7.3.4.2
Selenium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
SPLC Lead	6.6	0.1	ng/L	12/11/92	12/16/92	CAN WET	EPA 6010
TCLP Lead	<0.1	0.1	ng/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	5	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	26	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	130	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
 < Not detected at or above limit of detection
 — Information not available or not applicable

NI = Not Ignitable



Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 92121.09

Sample Identification: METHOD BLANK
Lab Number: 9212109-21
Sample Matrix/Media: SOIL

Date Sampled: ---
Date Received: ---

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Arsenic	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Barium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Chromium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Cobalt	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Copper	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Lead	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	ng/kg	12/14/92	12/14/92	EPA 7471	EPA 7471
Molybdenum	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Nickel	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	ng/kg	---	12/14/92	---	EPA 9010
Reactive Sulfide	<10	10	ng/kg	---	12/17/92	---	SW 7.3.4.2
Selenium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	ng/L	12/11/92	12/16/92	CAN WET	EPA 6010
TCLP Lead	<0.1	0.1	ng/L	12/14/92	12/16/92	EPA 1311	EPA 6010
Thallium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Vanadium	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010
Zinc	<1	1	ng/kg	12/14/92	12/15/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
--- Information not available or not applicable

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 22, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92122.05

Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 15, 1992. On December 15, 1992 you requested analyses of selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: 4-27
Lab Number: 9212205-01B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/14/92
Date Received: 12/15/92
Date Prepared: 12/16/92
Date Analyzed: 12/16/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: 4-27	Date Sampled: 12/14/92
Lab Number: 9212205-01B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: 4-27
Lab Number: 9212205-01B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/14/92
Date Received: 12/15/92
Date Prepared: 12/16/92
Date Analyzed: 12/16/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	96	70 - 121
Toluene-d8	2037-26-5	93	81 - 117
Bromofluorobenzene	460-00-4	89	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212205-31B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212205-31B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
 for
 Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
 Clayton Project No. 92122.05

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212205-31B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	91	70 - 121
Toluene-d8	2037-26-5	94	81 - 117
Bromofluorobenzene	460-00-4	98	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: 4-27
Lab Number: 9212205-01B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/14/92
Date Received: 12/15/92
Date Extracted: 12/15/92
Date Analyzed: 12/18/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification:	4-27	Date Sampled:	12/14/92
Lab Number:	9212205-01B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	1.0	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	0.3	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	0.6	0.2
Dibenzofuran	132-64-9	0.3	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification:	4-27	Date Sampled:	12/14/92
Lab Number:	9212205-01B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	0.6	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	1.9	0.2
Anthracene	120-12-7	0.7	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	2.0	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	1.7	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.5	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.5	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification:	4-27	Date Sampled:	12/14/92
Lab Number:	9212205-01B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.7	0.2
Benzo(k)fluoranthene	207-08-9	0.2	0.2
Benzo(a)pyrene	50-32-8	0.3	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	54	25	121
Phenol-d6	13127-88-3	60	24	113
Nitrobenzene-d5	4165-60-0	64	23	120
2-Fluorobiphenyl	321-60-8	80	30	115
2,4,6-Tribromophenol	118-79-6	49	19	122
Terphenyl-d14	98904-43-9	88	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212205-31B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/17/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212205-31B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/17/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: METHOD BLANK
Lab Number: 9212205-31B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: --
Date Received: --
Date Extracted: 12/15/92
Date Analyzed: 12/17/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212205-31B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/17/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	58	25	121
Phenol-d6	13127-88-3	69	24	113
Nitrobenzene-d5	4165-60-0	82	23	120
2-Fluorobiphenyl	321-60-8	83	30	115
2,4,6-Tribromophenol	118-79-6	51	19	122
Terphenyl-d14	98904-43-9	75	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: 4-27
Lab Number: 9212205-01
Sample Matrix/Media: SOIL

Date Sampled: 12/14/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	3	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	84	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	32	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	70	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	4.1	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.05

Sample Identification: METHOD BLANK
Lab Number: 9212205-31
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable



**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Date 12/15/92

Page 1 of 1

Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments	
9212152-12A 4-1	12/9/92	13:40	3406	total CAM 17 metals; NET-Pb; TCLP-Pb	homogenize entire sample/tube for metals analysis ↓	
9212153-01A 4-4	12/9/92	19:45	-	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-05A 4-9	12/12/92	14:20	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-07A 4-11	12/12/92	19:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-10A 4-14	12/12/92	22:05	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-11A 4-15	12/12/92	22:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270		Run 8240 sample first; then homogenize entire tube for metals and 8270 as appropriate
9212195-17A 4-21	12/13/92	03:10	3529	total CAM 17 metals; NET-Pb; TCLP-Pb		Homogenize entire tube before analysis ↓
9212195-18A 4-22	12/14/92	11:30	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; RCI.		
9212195-20A 4-24	12/14/92	12:55	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; 8080		
9212205-01A 4-27	12/14/92	19:25	3530	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270		Run 8240 sample first; then homogenize entire tube for metals and 8270 as appropriate
Turnaround time: 5 days				Results to: Elizabeth Wells		

- Requested by EK Wells
- Bill Port of Oakland directly
- Please follow all EPA test methods
- RFI reactivity, corrosivity and ignitability

Chain-of-Custody Record

No 3530

Date: 12/14/92

Page 1 of 3

Project No.: 2026.06

Samplers (Signatures): *James M Carol*

ANALYSES

REMARKS

Additional comments

Bill Port of Oakland directly

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/14	1925	4-27								X	X	S		1
	1955	4-28								X	X	S		1
	2145	5-1								X	X	S		1
	2210	5-2								X	X	S		1
	2225	5-3								X	X	S		1
	2235	5-4								X	X	S		1
	2250	5-5								X	X	S		1
	2300	5-6								X	X	S		1
	2315	5-7								X	X	S		1
12/15	0105	5-8								X	X	S		1
	0115	5-9								X	X	S		1
	0130	5-10								X	X	S		1

Turnaround time: **HOLD**

Results to: Elizabeth K. Wells

Total No. of containers: 12

Relinquished by: *James M Carol*
 Signature: *James M Carol*
 Printed name: **Jim Carolan**
 Company: **Geomatrix**

Date: 12/15/92
 Relinquished by: *Jim Mitchell*
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**


Date: 12/15/92
 Relinquished by: _____
 Signature: _____
 Printed name: _____
 Company: _____

Date: _____
 Method of shipment: **Lab Pickup**
 Laboratory comments and Log No.: **9212205**
Received by BC Carol OK

Received by: *Jim Mitchell*
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Time: 10:08
 Received by: *Tracy B Bullock*
 Signature: *Tracy B Bullock*
 Printed name: **TRACY B. Bullock**
 Company: **CLAYTON ENV.**

Time: 12:05
 Received by: _____
 Signature: _____
 Printed name: _____
 Company: _____

 **Geomatrix Consultants**
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

Chain-of-Custody Record

No 3531

Date: 12/15/92

Page 2 of 3

Project No.: 2026.06			ANALYSES										REMARKS										
Samplers (Signatures):			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD												Additional comments	
Date	Time	Sample Number																					
12/15	0158	5-11								X												Bill Port of Oakland directly.	
	0240	5-12								X													
	0225	5-13								X													
	0240	5-14								X													
	0320	5-15								X													
	0340	5-16								X													
	0410	5-17								X													
	0430	5-18								X													
	07:10	5-19								X													
	07:20	5-20								X													
	07:35	5-21								X													
	07:55	5-22								X													

Turnaround time: HOLD
 Results to: Elizabeth K. Wells
 Total No. of containers: 12

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
Signature: James M Carolan	12/15/92	Signature: Jim Mitchell	12/15/92	Signature:		Lab Pick up
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Printed name:		Laboratory comments and Log No.:
Company: Geomatrix		Company: CLAYTON ENV.		Company:		9212205
Received by:	Time:	Received by:	Time:	Received by:	Time:	Rec'd with BE card ok
Signature: Jim Mitchell	10:00	Signature: Tracy B. Bullock	12:05	Signature:		
Printed name: JIM MITCHELL		Printed name: TRACY B. Bullock		Printed name:		
Company: CLAYTON ENV.		Company: CLAYTON ENV.		Company:		

Geomatrix Consultants
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

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1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 22, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92121.95

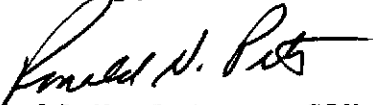
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 14, 1992. On December 15, 1992 you requested analyses on selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached. As we discussed, we believe the discrepancy between total lead and STLC lead on several samples is a result of sample inhomogeneity.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification:	4-15	Date Sampled:	12/12/92
Lab Number:	9212195-11B	Date Received:	12/14/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-15
Lab Number: 9212195-11B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/12/92
Date Received: 12/14/92
Date Prepared: 12/16/92
Date Analyzed: 12/16/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification:	4-15	Date Sampled:	12/12/92
Lab Number:	9212195-11B	Date Received:	12/14/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	94	70 - 121
Toluene-d8	2037-26-5	89	81 - 117
Bromofluorobenzene	460-00-4	88	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212195-23A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	91	70 - 121
Toluene-d8	2037-26-5	94	81 - 117
Bromofluorobenzene	460-00-4	98	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification:	4-15	Date Sampled:	12/12/92
Lab Number:	9212195-11B	Date Received:	12/14/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-15	Date Sampled: 12/12/92
Lab Number: 9212195-11B	Date Received: 12/14/92
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	2.0	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	0.7	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	1.4	0.2
Dibenzofuran	132-64-9	0.7	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification:	4-15	Date Sampled:	12/12/92
Lab Number:	9212195-11B	Date Received:	12/14/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	1.2	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	2.9	0.2
Anthracene	120-12-7	0.8	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	1.7	0.2
Benzydine	92-87-5	ND	5
Pyrene	129-00-0	1.8	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.3	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.4	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-15	Date Sampled: 12/12/92
Lab Number: 9212195-11B	Date Received: 12/14/92
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.8	0.2
Benzo(k)fluoranthene	207-08-9	0.2	0.2
Benzo(a)pyrene	50-32-8	0.3	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	0.2	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	0.3	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	57	25	121
Phenol-d6	13127-88-3	66	24	113
Nitrobenzene-d5	4165-60-0	68	23	120
2-Fluorobiphenyl	321-60-8	90	30	115
2,4,6-Tribromophenol	118-79-6	72	19	122
Terphenyl-d14	98904-43-9	116	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212195-23A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/15/92
Extraction Method:	EPA 3550	Date Analyzed:	12/17/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212195-23A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/17/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212195-23A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/17/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212195-23A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/15/92
Extraction Method: EPA 3550	Date Analyzed: 12/17/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	58	25	121
Phenol-d6	13127-88-3	69	24	113
Nitrobenzene-d5	4165-60-0	82	23	120
2-Fluorobiphenyl	321-60-8	83	30	115
2,4,6-Tribromophenol	118-79-6	51	19	122
Terphenyl-d14	98904-43-9	75	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-24	Date Sampled: 12/14/92
Lab Number: 9212195-20B	Date Received: 12/14/92
Sample Matrix/Media: SOIL	Date Extracted: 12/17/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.22	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.17	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.44	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.2
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-24
Lab Number: 9212195-20B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: 12/14/92
Date Received: 12/14/92
Date Extracted: 12/17/92
Date Analyzed: 12/18/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	83	24	150
Dibutylchloroendate	1770-80-5	78	20	150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK
Lab Number: 9212195-23A
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080
Date Sampled: --
Date Received: --
Date Extracted: 12/17/92
Date Analyzed: 12/18/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212195-23A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/17/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	60	24	150
Dibutylchloroendate	1770-80-5	61	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-9
Lab Number: 9212195-05
Sample Matrix/Media: SOIL

Date Sampled: 12/12/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	47	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	160	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	8.9	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	10	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-11
Lab Number: 9212195-07
Sample Matrix/Media: SOIL

Date Sampled: 12/12/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	31	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	55	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	160	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	4.6	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-14
Lab Number: 9212195-10
Sample Matrix/Media: SOIL

Date Sampled: 12/12/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	68	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	36	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	21	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	32	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-15
Lab Number: 9212195-11
Sample Matrix/Media: SOIL

Date Sampled: 12/12/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	94	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	58	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	88	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	1.5	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	25	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	5.6	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-21
Lab Number: 9212195-17
Sample Matrix/Media: SOIL

Date Sampled: 12/13/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	93	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	51	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	100	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.9	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	32	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-22
Lab Number: 9212195-18
Sample Matrix/Media: SOIL

Date Sampled: 12/14/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	130	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	28	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	41	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Ignitability	NI	—	Degrees F	—	12/18/92	—	SW 7.1.2
Lead	100	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.9	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
pH	9.6	—	S. U.	—	12/16/92	—	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	—	12/22/92	—	EPA 9010
Reactive Sulfide	<10	10	mg/kg	—	12/17/92	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	43	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	10	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable
NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: 4-24
Lab Number: 9212195-20
Sample Matrix/Media: SOIL

Date Sampled: 12/14/92
Date Received: 12/14/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	94	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	38	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	91	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	33	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	5.5	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.95

Sample Identification: METHOD BLANK
Lab Number: 9212195-23
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/22/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/17/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**



Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212152-12A 4-1	12/9/92	13:40	3406	total CAM 17 metals; NET-Pb; TCLP-Pb	homogenize entire sample/tube for metals analysis
9212153-01A 4-4	12/9/92	19:45	-	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-05A 4-9	12/12/92	14:20	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-07A 4-11	12/12/92	19:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-10A 4-14	12/12/92	22:05	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-11A 4-15	12/12/92	22:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270	Put 8240 sample first; then homogenize entire tube for metals and 8270 as appropriate
9212195-17A 4-21	12/13/92	08:10	3529	total CAM 17 metals; NET-Pb; TCLP-Pb	Homogenize entire tube before analysis
9212195-18A 4-22	12/14/92	11:30	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; RCI	
9212195-20A 4-24	12/14/92	12:55	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; 8080	
9212205-01A 4-27	12/14/92	19:25	3530	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270	
Turnaround time: 5 days				Results to: Elizabeth Wells	

- Requested by EK Wells
- Bill Port of Oakland directly
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, and ignitability

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 22, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06I
Clayton Project No. 92121.53

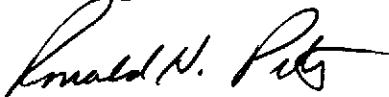
Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 10, 1992. On December 15, 1992 you requested analyses on selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.53

Sample Identification: 4-4
Lab Number: 9212153-01
Sample Matrix/Media: SOIL

Date Sampled: 12/09/92
Date Received: 12/10/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	92	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	54	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	57	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	3.6	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	33	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 92121.53

Sample Identification: METHOD BLANK
Lab Number: 9212153-02
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Berth 30
Port of Oakland
Project No. 2026.06

Date 12/15/92

Page 1 of 1

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments	
9212152-12A 4-1	12/9/92	13:40	3406	total CAM 17 metals; NET-Pb; TCLP-Pb	homogenize entire sample/tube for metals analysis	
9212153-01A 4-4	12/9/92	19:45	-	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-05A 4-9	12/12/92	14:20	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-07A 4-11	12/12/92	19:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-10A 4-14	12/12/92	22:05	3528	total CAM 17 metals; NET-Pb; TCLP-Pb		
9212195-11A 4-15	12/12/92	22:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb; B240; B270		Run B240 sample first; then homogenize entire tube for metals and B270 as appropriate
9212129-17A 4-21	12/13/92	08:10	3529	total CAM 17 metals; NET-Pb; TCLP-Pb		Homogenize entire tube before analysis
9212195-18A 4-22	12/14/92	11:30	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; RCI		
9212195-20A 4-24	12/14/92	12:55	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; B0B0		
9212205-01A 4-27	12/14/92	19:25	3530	total CAM 17 metals; NET-Pb; TCLP-Pb; B240; B270		Run B240 sample first; then homogenize entire tube for metals and B270 as appropriate
Turnaround time: 5 days				Results to: Elizabeth Wells		

- Requested by EKWells
- Bill Port of Oakland directly
- Please follow all EPA test methods
- RCI = reactivity, corrosivity, and ignitability

Chain-of-Custody Record

No. 2802

Date: 12/9 - 12/10/92

Page 1 of 1

Project No.:
2026.06 I
Samplers (Signatures):
M Blankenship
James M Car

ANALYSES

REMARKS

Additional comments

Bill Part of
Oakland Directly

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/9/92	19:45	4-4								X	Y	S		1
[Large diagonal X mark across the table]														

Turnaround time:

Hold

Results to:

ELIZABETH WELLS

Total No. of containers:

1

Relinquished by:
Signature: James M Carolan
Printed name: Jim Carolan
Company: Geomatrix
Received by:
Signature: Jim Mitchell
Printed name: JIM MITCHELL
Company: CLAYTON ENV.

Date: 12/10/92
Relinquished by:
Signature: Jim Mitchell
Printed name: JIM MITCHELL
Company: CLAYTON ENV.
Received by:
Signature: Tracy Bullock
Printed name: Tracy Bullock
Company: CLAYTON

Date: 12/10/92
Relinquished by:
Signature:
Printed name:
Company:
Received by:
Signature:
Printed name:
Company:

Date: Method of shipment: Lab Pickup
Laboratory comments and Log No.:
9212153
2x43C
Geomatrix Consultants
100 Pine St. 10th Floor
San Francisco, CA. 94111
(415) 434-9400

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 22, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

ADDITIONAL REPORT
Client Ref. 2026.06
Clayton Project No. 92121.52

Dear Ms. Wells:

Attached is our analytical laboratory report for the samples received on December 9, 1992 and originally reported to you on December 16, 1992. On December 15, 1992 you requested analyses on sample number 12A which is presented in this report. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/caa
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92121.52

Sample Identification: 4-1
Lab Number: 9212152-12
Sample Matrix/Media: SOIL

Date Sampled: 12/09/92
Date Received: 12/09/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Barium	95	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Copper	43	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Lead	81	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Mercury	1.5	0.1	mg/kg	12/15/92	12/15/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Selenium	1	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
STLC Lead	6.2	0.1	mg/L	12/15/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	EPA 1311	EPA 6010
Thallium	5	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/21/92	12/22/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Date 12/15/92

Page 1 of 1

Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9212152-12A 4-1	12/9/92	13:40	3406	total CAM 17 metals; NET-Pb; TCLP-Pb	homogenize entire sample/tube for metals analysis
9212153-01A 4-4	12/9/92	19:45	-	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-05A 4-9	12/12/92	14:20	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-07A 4-11	12/12/92	19:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-10A 4-14	12/12/92	22:05	3528	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-11A 4-15	12/12/92	22:40	3528	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270	
9212129-17A 4-21	12/13/92	08:10	3529	total CAM 17 metals; NET-Pb; TCLP-Pb	
9212195-18A 4-22	12/14/92	11:30	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; RCI	
9212195-20A 4-24	12/14/92	12:55	3529	total CAM 17 metals; NET-Pb; TCLP-Pb; 8080	
9212205-01A 4-27	12/14/92	19:25	3530	total CAM 17 metals; NET-Pb; TCLP-Pb; 8240; 8270	

Turnaround time: 5 days

Results to: Elizabeth Wells

- Requested by EKWells
- Bill Port of Oakland directly
- Please follow all EPA Test methods
- RCI = reactivity, corrosivity, and ignitability

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 22, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92122.33

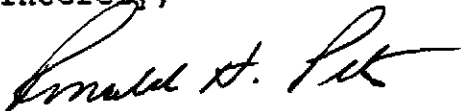
Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on December 15 and 16, 1992. On December 16, 1992 you requested analyses on selected samples. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-25	Date Sampled: 12/15/92
Lab Number: 9212233-06B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/17/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.19	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.08	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.11	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	5-25	Date Sampled:	12/15/92
Lab Number:	9212233-06B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/17/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	86	24 - 150
Dibutylchloroendate	1770-80-5	73	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212233-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/17/92
Extraction Method: EPA 3550	Date Analyzed: 12/18/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212233-11B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/17/92
Extraction Method:	EPA 3550	Date Analyzed:	12/18/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	60	24	150
Dibutylchloroendate	1770-80-5	61	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	99	70 - 121
Toluene-d8	2037-26-5	88	81 - 117
Bromofluorobenzene	460-00-4	95	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	5-44	Date Sampled:	12/15/92
Lab Number:	9212233-09B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-44	Date Sampled: 12/15/92
Lab Number: 9212233-09B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	5-44	Date Sampled:	12/15/92
Lab Number:	9212233-09B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	96	70 - 121
Toluene-d8	2037-26-5	92	81 - 117
Bromofluorobenzene	460-00-4	87	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK
Lab Number: 9212233-11B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: --
Date Received: --
Date Prepared: 12/16/92
Date Analyzed: 12/16/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212233-11B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/16/92
Preparation Method:	EPA 5030	Date Analyzed:	12/16/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212233-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/16/92
Preparation Method: EPA 5030	Date Analyzed: 12/16/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	91	70 - 121
Toluene-d8	2037-26-5	94	81 - 117
Bromofluorobenzene	460-00-4	98	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	5-26	Date Sampled:	12/15/92
Lab Number:	9212233-07B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/18/92
Extraction Method:	EPA 3550	Date Analyzed:	12/21/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	0.6	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	0.3	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	0.3	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	0.8	0.2
Anthracene	120-12-7	0.2	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	0.5	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	0.4	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26	Date Sampled: 12/15/92
Lab Number: 9212233-07B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.2	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	44	25 - 121
Phenol-d6	13127-88-3	62	24 - 113
Nitrobenzene-d5	4165-60-0	41	23 - 120
2-Fluorobiphenyl	321-60-8	66	30 - 115
2,4,6-Tribromophenol	118-79-6	52	19 - 122
Terphenyl-d14	98904-43-9	69	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	5-44	Date Sampled:	12/15/92
Lab Number:	9212233-09B	Date Received:	12/15/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/18/92
Extraction Method:	EPA 3550	Date Analyzed:	12/21/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-44	Date Sampled: 12/15/92
Lab Number: 9212233-09B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	9
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	ND	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	ND	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-44	Date Sampled: 12/15/92
Lab Number: 9212233-09B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	ND	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	ND	2
Benzidine	92-87-5	ND	60
Pyrene	129-00-0	ND	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	60
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-44	Date Sampled: 12/15/92
Lab Number: 9212233-09B	Date Received: 12/15/92
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	53	25 - 121
Phenol-d6	13127-88-3	68	24 - 113
Nitrobenzene-d5	4165-60-0	59	23 - 120
2-Fluorobiphenyl	321-60-8	105	30 - 115
2,4,6-Tribromophenol	118-79-6	60	19 - 122
Terphenyl-d14	98904-43-9	93	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212233-11B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/18/92
Extraction Method:	EPA 3550	Date Analyzed:	12/21/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212233-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212233-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/18/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK
Lab Number: 9212233-11B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: --
Date Received: --
Date Extracted: 12/18/92
Date Analyzed: 12/21/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	53	25	121
Phenol-d6	13127-88-3	70	24	113
Nitrobenzene-d5	4165-60-0	59	23	120
2-Fluorobiphenyl	321-60-8	74	30	115
2,4,6-Tribromophenol	118-79-6	43	19	122
Terphenyl-d14	98904-43-9	68	18	137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-5
Lab Number: 9212233-01
Sample Matrix/Media: SOIL

Date Sampled: 12/14/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	51	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	150	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	9.4	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	5	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	180	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-10
Lab Number: 9212233-02
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	76	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	12/18/92	--	SW 7.1.2
Lead	140	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
pH	10.6	--	S.U.	--	12/16/92	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/22/92	--	EPA 9010
Reactive Sulfide	20	10	mg/kg	--	12/22/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	8.6	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	180	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-11
Lab Number: 9212233-03
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	46	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	100	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	11	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-17
Lab Number: 9212233-04
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	83	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	110	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	160	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	5.9	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-19
Lab Number: 9212233-05
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	61	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	32	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	34	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	32	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	1.4	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	23	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	84	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-25
Lab Number: 9212233-06
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	74	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	6	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	210	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	4.9	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	22	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	100	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-26
Lab Number: 9212233-07
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	63	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	24	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	41	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	2.7	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	66	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-39
Lab Number: 9212233-08
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	2	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	92	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	43	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	5.9	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-44
Lab Number: 9212233-09
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	39	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	170	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	33	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	10	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: 5-49
Lab Number: 9212233-10
Sample Matrix/Media: SOIL

Date Sampled: 12/15/92
Date Received: 12/15/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	75	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	53	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	120	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	12	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	5	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.33

Sample Identification: METHOD BLANK
Lab Number: 9212233-11
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/21/92	12/21/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/22/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/22/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/16/92	12/21/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/17/92	12/21/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/21/92	12/21/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 12/16/92

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Page 1 of 1

Berth 30

Port of Oakland

Project No. 2026.06

9212233

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
5-5	12/14/92	22:50	3530	total CAM 17 metals; NET-Pb; TCLP-Pb	Homogenize entire tube before analysis
5-10	12/15/92	1:30 12:15	3530	total CAM 17 metals; NET-Pb; TCLP-Pb; RCI	
5-11	12/15/92	1:50	3531	total CAM 17 metals; NET-Pb; TCLP-Pb	
5-17	12/15/92	4:10	3531	total CAM 17 metals; NET-Pb; TCLP-Pb	
5-19	12/15/92	7:05	3531	total CAM 17 metals; NET-Pb; TCLP-Pb	
5-25	12/15/92	8:55	3408	total CAM 17 metals; NET-Pb; TCLP-Pb; B080	Homogenize entire tube before analysis as appropriate
5-26	12/15/92	9:10	3408	total CAM 17 metals; NET-Pb; TCLP-Pb; B240; B270	Put B240 sample first; then homogenize entire tube before analysis as appropriate
5-39	12/15/92	14:20	3405	total CAM 17 metals; NET-Pb; TCLP-Pb	Homogenize entire tube before analysis
5-44	12/15/92	19:55	2794	total CAM 17 metals; NET-Pb; TCLP-Pb; B240; B270	Put B240 sample first; then homogenize entire tube before analysis as appropriate
5-49	12/15/92	22:00	2794	total CAM 17 metals; NET-Pb; TCLP-Pb	Homogenize entire tube before analysis
Turnaround time: <u>4 1/2 days</u>				Results to: Elizabeth Wells	

- Requested by EK Wells
- Bill Port of Oakland directly
- Follow all EPA Test Methods
- RCI = reactivity, corrosivity, and ignitability

Chain-of-Custody Record

No. 3530

Date: 12/14/92

Page 1 of 3

Project No.: 2026.06
 Samplers (Signatures):
James M Carol

ANALYSES

REMARKS

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/14	1925	4-27								X	X	S		1
	1945	4-28								X	X	S		1
	2145	5-1								X	X	S		1
	2210	5-2								X	X	S		1
	2225	5-3								X	X	S		1
	2235	5-4								X	X	S		1
	2240	5-5								X	X	S		1
	2300	5-6								X	X	S		1
	2315	5-7								X	X	S		1
12/15	0100	5-8								X	X	S		1
	0115	5-9								X	X	S		1
	0130	5-10								X	X	S		1


Bill Part of Oakland directly

011
02
03
04
05
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11
12

Turnaround time: HOLD
 Results to: Elizabeth K. Wells
 Total No. of containers: 12

Relinquished by: Signature: <i>James M Carol</i> Printed name: Jim Carolan Company: Geomatrix	Date: 12/14/92	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/15/92	Relinquished by: Signature: Printed name: Company:	Date:
Received by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 10:48	Received by: Signature: <i>Tracy B. Bullock</i> Printed name: TRACY B. Bullock Company: CLAYTON ENV.	Time: 12:05	Received by: Signature: Printed name: Company:	Time:

Method of shipment: Lab Pickup
 Laboratory comments and Log No.:
 9212205
 Keck & B.C.
 Cold OK

 **Geomatrix Consultants**
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

Chain-of-Custody Record

No. 3531

Date: 12/15/92

Page 2 of 3

Project No.: 2076.06			ANALYSES													REMARKS								
Samplers (Signatures):			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD										Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																						
12/15	0150	S-11								X										X	S		1	Bill Post of Oakland directly.
14		0210								X										X	S		1	
15		0225								X										X	S		1	
16		0240								X										X	S		1	
17		0320								X										X	S		1	
18		0340								X										X	S		1	
19	↓	0410								X										X	S		1	
20	↓	0430								X										X	S		1	
21		0710								X										X	S		1	
22		0720								X										X	S		1	
23		0735								X										X	S		1	
24	↓	0755								X										X	S		1	

Turnaround time: 11-13

Results to: Elizabeth L. Wells

Total No. of containers: 12

Relinquished by:		Date:	Relinquished by:		Date:	Relinquished by:		Date:	Method of shipment:	
Signature: James M Carol		12/15/92	Signature: Jim Mitchell		12/15/92	Signature:			Lab Pick up	
Printed name: Jim Carolan			Printed name: JIM MITCHELL			Printed name:			Laboratory comments and Log No.:	
Company: Geomatrix			Company: CLAYTON ENV.			Company:			9212205 Records to be copied	
Received by:		Time:	Received by:		Time:	Received by:		Time:		
Signature: Jim Mitchell		10:00	Signature: Tracy B Bullock		12:05	Signature:				
Printed name: JIM MITCHELL			Printed name: TRACY B. Bullock			Printed name:				
Company: CLAYTON ENV.			Company: CLAYTON ENV.			Company:				

 **Geomatrix Consultants**
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

Chain-of-Custody Record

No 3408

Date: 12/15/92

Page 3 of 3

Project No.: 2026-06 I

ANALYSES

REMARKS

Samplers (Signatures):
James M. Carolan

Additional comments

Bill Port of Oakland Directly

25A
26
27
28
29
30

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/15	08:25	5-23								X	X	S		1
1	08:40	5-24								X	X	S		1
1	08:55	5-25								X	X	S		1
1	09:10	5-26								X	X	S		1
	09:25	5-27								X	X	S		1
	09:35	5-28								X	X	S		1

Turnaround time: HOLD Results to: Elizabeth Wells Total No. of containers: 6

Relinquished by:
Signature: *James M Carolan*
Printed name: Jim Carolan
Company: Geomatrix

Received by:
Signature: *Jim Mitchell*
Printed name: JIM MITCHELL
Company: CLAYTON ENV.

Date: 12/15/92

Relinquished by:
Signature: *Jim Mitchell*
Printed name: JIM MITCHELL
Company: CLAYTON ENV.

Received by:
Signature: *Tracy B. Bullloch*
Printed name: TRACY B. BULLLOCH
Company: CLAYTON ENV.

Date: 12/15/92


Relinquished by:
Signature:
Printed name:
Company:

Received by:
Signature:
Printed name:
Company:

Date: Method of shipment: Lab Pickup

Laboratory comments and Log No.: 5212205

Rec'd # 2 x ABC
Cold OK


 **Geomatrix Consultants**
100 Pine St. 10th Floor
San Francisco, CA. 94111
(415) 434-9400

fe

Chain-of-Custody Record	No. 2794	Date: 12/16/92	Page 2 of 3
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Project No.: 2026.06 I			ANALYSES													REMARKS										
Samplers (Signatures): <i>Janice M Carol</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD											Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments	
Date	Time	Sample Number																								
12/15	15:25	5-41								X												X	S		1	Bill Port of Oakland DIRECTLY
	1910	5-42								X												X	S		1	
	1945	5-43								X												X	S		1	
	1955	5-44								X												X	S		1	
	2040	5-45								X												X	S		1	
	2055	5-46								X												X	S		1	
	2115	5-47								X												X	S		1	
	2230	5-48								X												X	S		1	
	2200	5-49								X												X	S		1	
↓	2230	5-50								X												X	S		1	
12/16	0230	6-1								X												X	S		1	
↓	0245	6-2								X												X	S		1	

Turnaround time: HOLD	Results to: Elizabeth Wells	Total No. of containers: 12
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Relinquished by: <i>Janice M Carol</i> Signature: Janice M Carolan Printed name: Janice M Carolan Company: Geomatrix	Date: 12/16/92	Relinquished by: <i>Jim Mitchell</i> Signature: JIM MITCHELL Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/16/92	Relinquished by: Signature: Printed name: Company: 	Date: 	Method of shipment: Lab Pickup Laboratory comments and Log No.: 2x4BC 9212229 DR
Received by: <i>Jim Mitchell</i> Signature: JIM MITCHELL Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 09:20	Received by: <i>Terry Salvo</i> Signature: Terry Salvo Printed name: Terry Salvo Company: C.E.C.	Time: 11:15 AM	Received by: Signature: Printed name: Company: 	Time: 	 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400

Chain-of-Custody Record			No 3532		Date: 12/16/92			Page 3 of 3							
Project No.: 2-26.06			ANALYSES							REMARKS					
Samplers (Signatures):			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number													
12/16	03:05	6-3								X		S		1	Bill Port of Oakland directly
	03:20	6-4								X		S		1	
	07:00	6-5								X		S		1	
	07:20	6-6								X		S		1	
	07:40	6-7								X		S		1	
	08:00	6-8								X		S		1	
	08:45	6-9								X		S		1	
Turnaround time: HOLD			Results to: Elizabeth K. Wells			Total No. of containers: 7									
Relinquished by:		Date:	Relinquished by:		Date:	Relinquished by:		Date:	Method of shipment: Lab Pickup						
Signature: James M Carole		12/16/92	Signature: Jim Mitchell		12/16/92	Signature:			Laboratory comments and Log No.: 2x ABC 9212229 OK						
Printed name: Jim Carole			Printed name: JIM MITCHELL			Printed name:									
Company: Geomatrix			Company: CLAYTON ENV.			Company:									
Received by:		Time:	Received by:		Time:	Received by:		Time:	Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400						
Signature: Jim Mitchell		09:20	Signature: Terry Salvo		11:15 AM	Signature:									
Printed name: JIM MITCHELL			Printed name: Terry Salvo			Printed name:									
Company: CLAYTON ENV.			Company: C.E.C.			Company:									

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 92122.33

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212213-MB
Ext./Prep. Method: EPA3550
Date: 12/17/92
Analyst: STF
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/18/92
Time: 18:06
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	ND	0.0400	0.0320	80	0.0320	80	80	32	120	0.0	50
ALDRIN	ND	0.0400	0.0330	83	0.0320	80	81	34	132	3.1	43
DIELDRIN	ND	0.0400	0.0290	73	0.0290	73	73	31	134	0.0	38
ENDRIN	ND	0.0400	0.0340	85	0.0330	83	84	42	139	3.0	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0350	88	0.0350	88	88	46	127	0.0	50
HEPTACHLOR	ND	0.0400	0.0400	100	0.0390	98	99	35	130	2.5	31

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212205-01A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921111-06W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02843
Date: 12/17/92
Time: 04:31
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result								
1,1-DICHLOROETHENE	ND	0.0500	0.0420		84	0.0480	96	90	59	172	13	22
BENZENE	ND	0.0500	0.0580		116	0.0560	112	114	66	142	3.5	21
CHLOROBENZENE	ND	0.0500	0.0510		102	0.0480	96	99	60	133	6.1	21
TOLUENE	ND	0.0500	0.0510		102	0.0520	104	103	59	139	1.9	21
TRICHLOROETHENE	ND	0.0500	0.0460		92	0.0450	90	91	62	137	2.2	24

LCS = Laboratory Control Sample
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Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212230-02B
Ext./Prep. Method: EPA3550
Date: 12/18/92
Analyst: STP
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 12/21/92
Time: 21:12
Analyst: AC
Units: NG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.65	50	1.68	50	50	38	107	1.8	23
1,4-Dichlorobenzene	ND	3.33	1.60	48	1.54	46	47	28	104	3.8	27
2,4-Dinitrotoluene	ND	3.33	2.17	65	1.85	56	60	28	89	16	47
2-Chlorophenol	ND	3.33	1.91	57	1.83	55	56	25	102	4.3	50
4-Chloro-m-cresol	ND	3.33	2.28	68	1.81	54	61	26	103	23	33
4-Nitrophenol	ND	3.33	2.49	75	2.02	61	68	11	114	21	50
Acenaphthene	ND	3.33	2.53	76	2.22	67	71	31	137	13	19
N-Nitrosodipropylamine	ND	3.33	1.72	52	1.58	47	50	41	126	8.5	38
Pentachlorophenol	ND	3.33	2.33	70	2.12	64	67	17	109	9.4	47
Phenol	ND	3.33	1.88	56	1.74	52	54	26	90	7.7	35
Pyrene	ND	3.33	2.58	77	2.06	62	70	35	142	22	36

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

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Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212230-02D
Ext./Prep. Method: EPA 3050
Date: 12/21/92
Analyst: RAM
Std. Source: VHG 2-0585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/21/92
Time: 18:29
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	ND	50.0	48.9	98	51.2	102	100	54	123	4.6	25
ARSENIC	14.4	50.0	67.4	106	66.8	105	105	72	115	0.9	25
BARIUM	128	50.0	206	156	195	134	145	46	155	5.5	25
BERYLLIUM	0.110	50.0	52.1	104	52.7	105	105	78	112	1.1	25
CADMIUM	ND	50.0	51.9	104	54.1	108	106	80	111	4.2	25
CHROMIUM	15.3	50.0	68.6	107	66.1	102	104	60	135	3.7	25
COBALT	7.50	50.0	60.2	105	60.7	106	106	72	114	0.8	25
COPPER	11.8	50.0	67.3	111	66.1	109	110	72	127	1.8	25
LEAD	3.60	50.0	56.1	105	56.9	107	106	61	124	1.4	25
MOLYBDENUM	ND	54.0	55.8	103	58.1	108	105	69	119	4.0	25
NICKEL	14.6	50.0	67.3	105	67.2	105	105	54	132	0.2	25
SELENIUM	ND	50.0	47.4	95	51.5	103	99	63	117	8.3	25
SILVER	ND	45.0	46.7	104	48.3	107	106	79	118	3.4	25
THALLIUM	ND	50.0	52.2	104	55.9	112	108	63	115	6.8	25
VANADIUM	28.0	50.0	84.2	112	81.0	106	109	70	122	3.9	25
ZINC	18.9	50.0	80.9	124	72.5	107	116	64	133	11	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

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SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212269-03A
Ext./Prep. Method: EPA7471
Date: 12/21/92
Analyst: JSL
Std. Source: A92100701W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 12/21/92
Time: 6 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.540	1.00	1.46	92	1.39	85	89	72	128	4.9	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212269-01A
Ext./Prep. Method: EPA7471
Date: 12/21/92
Analyst: JSL
Std. Source: A92100701W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 12/21/92
Time: 5 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.490	1.00	1.47	98	1.29	80	89	72	128	13	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212233-01A
Ext./Prep. Method: EPA 3010
Date: 12/18/92
Analyst: JSL
Std. Source: TCLP A9212101W
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/21/92
Time: 21:37
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.76	95	4.81	96	96	75	125	1.0	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212233-01A
Ext./Prep. Method: EPA 3010
Date: 12/18/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/21/92
Time: 20:40
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	9.40	10.0	19.2	98	19.3	99	99	75	125	0.5	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212233-02A
Ext./Prep. Method: SW 7-3-4-2
Date: 12/18/92
Analyst: TK
Std. Source: 920526-01
Sample Matrix/Media: SOIL

Analytical Method: EPA7_3_4_2
Instrument ID: 00008
Date: 12/22/92
Time: 01:
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	15.0	203	215	99	185	84	91	61	111	15	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.33

Clayton Lab Number: 9212233-02A
Ext./Prep. Method: EPA9010
Date: 12/18/92
Analyst: TK
Std. Source: MALL6881KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 12/22/92
Time: 02:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	9.80	98	9.60	96	97	58	135	2.1	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 29, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92122.89

Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on December 21, 1992. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Michael Lynch for

Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6	Date Sampled: 12/17/92
Lab Number: 9212289-01B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Prepared: 12/21/92
Preparation Method: EPA 5030	Date Analyzed: 12/21/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-6	Date Sampled:	12/17/92
Lab Number:	9212289-01B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/21/92
Preparation Method:	EPA 5030	Date Analyzed:	12/21/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6	Date Sampled: 12/17/92
Lab Number: 9212289-01B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Prepared: 12/21/92
Preparation Method: EPA 5030	Date Analyzed: 12/21/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	92	70 - 121
Toluene-d8	2037-26-5	94	81 - 117
Bromofluorobenzene	460-00-4	83	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-15	Date Sampled:	12/18/92
Lab Number:	9212289-03B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/21/92
Preparation Method:	EPA 5030	Date Analyzed:	12/21/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-15	Date Sampled:	12/18/92
Lab Number:	9212289-03B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/21/92
Preparation Method:	EPA 5030	Date Analyzed:	12/21/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-15	Date Sampled:	12/18/92
Lab Number:	9212289-03B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/21/92
Preparation Method:	EPA 5030	Date Analyzed:	12/21/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	91	81 - 117
Bromofluorobenzene	460-00-4	81	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/21/92
Preparation Method: EPA 5030	Date Analyzed: 12/21/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212289-11B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/21/92
Preparation Method:	EPA 5030	Date Analyzed:	12/21/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/21/92
Preparation Method: EPA 5030	Date Analyzed: 12/21/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	111	70 - 121
Toluene-d8	2037-26-5	97	81 - 117
Bromofluorobenzene	460-00-4	95	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6	Date Sampled: 12/17/92
Lab Number: 9212289-01B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6	Date Sampled: 12/17/92
Lab Number: 9212289-01B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	ND	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	ND	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-6	Date Sampled:	12/17/92
Lab Number:	9212289-01B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/23/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	ND	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	ND	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	ND	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6	Date Sampled: 12/17/92
Lab Number: 9212289-01B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	52	25 - 121
Phenol-d6	13127-88-3	62	24 - 113
Nitrobenzene-d5	4165-60-0	66	23 - 120
2-Fluorobiphenyl	321-60-8	88	30 - 115
2,4,6-Tribromophenol	118-79-6	52	19 - 122
Terphenyl-d14	98904-43-9	90	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-15	Date Sampled: 12/18/92
Lab Number: 9212289-03B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-15
Lab Number: 9212289-03B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/18/92
Date Received: 12/21/92
Date Extracted: 12/22/92
Date Analyzed: 12/23/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	ND	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	ND	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	7-15	Date Sampled:	12/18/92
Lab Number:	9212289-03B	Date Received:	12/21/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/23/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	ND	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	ND	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	ND	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-15	Date Sampled: 12/18/92
Lab Number: 9212289-03B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	35	25 - 121
Phenol-d6	13127-88-3	44	24 - 113
Nitrobenzene-d5	4165-60-0	50	23 - 120
2-Fluorobiphenyl	321-60-8	78	30 - 115
2,4,6-Tribromophenol	118-79-6	10*	19 - 122
Terphenyl-d14	98904-43-9	83	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212289-11B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/28/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	87	25	121
Phenol-d6	13127-88-3	90	24	113
Nitrobenzene-d5	4165-60-0	83	23	120
2-Fluorobiphenyl	321-60-8	88	30	115
2,4,6-Tribromophenol	118-79-6	91	19	122
Terphenyl-d14	98904-43-9	87	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-39	Date Sampled: 12/19/92
Lab Number: 9212289-09B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/21/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.07	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.15	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.26	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.2
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ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-39	Date Sampled: 12/19/92
Lab Number: 9212289-09B	Date Received: 12/21/92
Sample Matrix/Media: SOIL	Date Extracted: 12/21/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2

<u>Surrogates</u>	Recovery (%)	QC Limits (%)	
		LCL	UCL
Tetrachloro-m-xylene	877-09-8	82	24 - 150
Dibutylchloroendate	1770-80-5	79	20 - 150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK
Lab Number: 9212289-11B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080
Date Sampled: --
Date Received: --
Date Extracted: 12/21/92
Date Analyzed: 12/21/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212289-11B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/21/92
Extraction Method: EPA 3550	Date Analyzed: 12/21/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	94	24 - 150
Dibutylchloroendate	1770-80-5	84	20 - 150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-6
Lab Number: 9212289-01
Sample Matrix/Media: SOIL

Date Sampled: 12/17/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	95	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	28	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	44	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	67	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	41	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	3.8	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	33	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-7
Lab Number: 9212289-02
Sample Matrix/Media: SOIL

Date Sampled: 12/17/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	40	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	58	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	95	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	62	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	5.8	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	36	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-15
Lab Number: 9212289-03
Sample Matrix/Media: SOIL

Date Sampled: 12/18/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	34	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	42	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	81	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	44	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	5.3	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-16
Lab Number: 9212289-04
Sample Matrix/Media: SOIL

Date Sampled: 12/18/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	39	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	76	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	8.5	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-17
Lab Number: 9212289-05
Sample Matrix/Media: SOIL

Date Sampled: 12/18/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	45	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	86	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	39	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	5.2	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-18
Lab Number: 9212289-06
Sample Matrix/Media: SOIL

Date Sampled: 12/18/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	50	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	12	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	93	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	12/21/92	--	SW 7.1.2
Lead	86	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	100	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
pH	10.3	--	S. U.	--	12/23/92	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/29/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/29/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	5.2	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	33	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	95	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-33
Lab Number: 9212289-07
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	37	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	38	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	60	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	49	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	3.4	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	95	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-34
Lab Number: 9212289-08
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	40	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	120	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	40	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	5.0	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	32	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-39
Lab Number: 9212289-09
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	65	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	120	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.8	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	37	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	7.1	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89

Sample Identification: 7-40
Lab Number: 9212289-10
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/21/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	33	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	61	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	230	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	48	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	9.6	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	32	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92122.89


Sample Identification: METHOD BLANK
Lab Number: 9212289-11
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/29/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/29/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/21/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/22/92	12/23/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

9212288

Chain-of-Custody Record			No. 3536		Date: 12/17/92		Page 1 of 4								
Project No.: 2026.06			ANALYSES						REMARKS						
Samplers (Signatures):			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number													
12/17	2010	7-1								X	S			1	Bill Port at Oakland directly
	2030	7-2								X	S			1	
	2045	7-3								X	S			1	
	2200	7-4								X	S			1	
	2220	7-5								X	S			1	
	2240	7-6								X	S			1	
	2315	7-7								X	S			1	
12/18	0100	7-8								X	S			1	
	0120	7-9								X	S			1	
	0135	7-10								X	S			1	
	0150	7-11								X	S			1	
	0210	7-12								X	S			1	
Turnaround time: HOLD			Results to: Elizabeth K. Wells			Total No. of containers: 12									
Relinquished by:		Date:	Relinquished by:		Date:	Relinquished by:		Date:	Method of shipment:		Lab Pickup				
Signature: James M. Carolan		12/21/92	Signature: Jim Mitchell		12/21/92	Signature:			Laboratory comments and Log No.:		9212288				
Printed name: Jim Carolan			Printed name: JIM MITCHELL			Printed name:					2x4 BCL				
Company: Geomatrix			Company: CLAYTON ENV.			Company:					OC				
Received by:		Time:	Received by:		Time:	Received by:		Time:							
Signature: Jim Mitchell		11:45	Signature: Terry Salvo		12:25	Signature:									
Printed name: JIM MITCHELL			Printed name: TERRY SALVO			Printed name:									
Company: CLAYTON ENV.			Company: C.E.C.			Company:									
											 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400				


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Chain-of-Custody Record No. 3537 Date: 12/18/92 Page 2 of 4

Project No.: 226-06			ANALYSES													REMARKS									
Sample(s) (Signatures): <i>James M. Carolan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD										Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments	
Date	Time	Sample Number																							
12/18	0225	7-13								X											X	S		1	Bill Part of Oakland directly
	0255	7-14								X											X	S		1	
	0315	7-15								X											X	S		1	
	0340	7-16								X											X	S		1	
	0355	7-17								X											X	S		1	
	07:20	7-18								X											X	S		1	
	08:00	7-19								X											X	S		1	
	08:40	7-20								X											X	S		1	
	09:10	7-21								X											X	S		1	
	2045	7-22								X											X	S		1	
	2225	7-23								X											X	S		1	
	2245	7-24								X											X	S		1	

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Turnaround time: **HOLD** Results to: **E.K. wells.** Total No. of containers: **12**

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment: <i>Lab Pickup</i>	
Signature: <i>James M. Carolan</i>	<i>12/21/92</i>	Signature: <i>Jim Mitchell</i>	<i>12/21/92</i>	Signature:			Laboratory comments and Log No.: <i>9212288</i> <i>2X4BC</i> <i>al</i>
Printed name: <i>Jim Carolan</i>		Printed name: <i>JIM MITCHELL</i>		Printed name:			
Company: <i>Geomatrix</i>		Company: <i>CLAYTON ENV.</i>		Company:			
Received by:	Time:	Received by:	Time:	Received by:	Time:	 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400	
Signature: <i>Jim Mitchell</i>	<i>11:45</i>	Signature: <i>Terry Salvo</i>	<i>12:25</i>	Signature:			
Printed name: <i>JIM MITCHELL</i>		Printed name: <i>Terry Salvo</i>		Printed name:			
Company: <i>CLAYTON ENV.</i>		Company: <i>C.E.C.</i>		Company:			

9212288

Chain-of-Custody Record			No 3538		Date: 12/18/92			Page 3 of 4							
Project No.: 2026.06			ANALYSES						REMARKS						
Samplers (Signatures): Elizabeth Wells James M Carol			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments Bill Port of Oakland directly
Date	Time	Sample Number													
25A 12/18	2305	7-25								X	S			1	
26 ↓	2325	7-26								X	S			1	
27 12/19	0050	7-27								X	S			1	
28 ↓	0110	7-28								X	S			1	
29 ↓	0130	7-29								X	S			1	
30 ↓	0150	7-30								X	S			1	
31 ↓	0210	7-31								X	S			1	
32 ↓	0230	7-32								X	S			1	
33 ↓	0355	7-33								X	S			1	
34 ↓	0430	7-34								X	S			1	
35 ↓	0740	7-35								X	S			1	
36V ↓	0810	7-36								X	S			1	
Turnaround time: HOLD			Results to: E.K. Wells			Total No. of containers:									

Relinquished by: Signature: James M Carol Printed name: Jim Carolan Company: Geomatrix	Date: 12/21/92	Relinquished by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/21/92	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: Lab Pick up
Received by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 11:45	Received by: Signature: Terry Salvo Printed name: Terry Salvo Company: O.E.C.	Time: 12:25	Received by: Signature: Printed name: Company:	Time:	Laboratory comments and Log No.: 9212288 OK JX45C
						Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400

Chain-of-Custody Record

No 3539

Date: 12/19/92

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Project No: 2020.06
 Samplers (Signatures): Elizabeth Wells
 James M Carola

ANALYSES

REMARKS

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Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	TPH as HALD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
12/19	0832	7-37								X	X	S		1
	0845	7-38								X	X	S		1
	0905	7-39								X	X	S		1
	0930	7-40								X	X	S		1
12/19	1055	7-41								X	X	S		1
	1118	7-42								X	X	S		1
	1145	7-43								X	X	S		1

Bill Port of Oakland
 directly

*(LAB 7-45)
 TIME: 445 *

Turnaround time:
 HOLD

Results to:
 Elizabeth Wells

Total No. of containers: 7

Relinquished by:
 Signature: James M Carola
 Printed name: Jim Carolan
 Company: Geomatrix

Date: 12/21/92
 Relinquished by:
 Signature: Jim Mitchell
 Printed name: JIM MITCHELL
 Company: CLAYTON ENV.

Date: 12/21/92
 Relinquished by:
 Signature:
 Printed name:
 Company:


Date: Method of shipment:
 Lab pickup

Received by:
 Signature: Jim Mitchell
 Printed name: JIM MITCHELL
 Company: CLAYTON ENV.

Time: 11:45 AM
 Received by:
 Signature: Terry Salvo
 Printed name: Terry Salvo
 Company: C.F.C.

Time: 12:25 PM
 Received by:
 Signature:
 Printed name:
 Company:

Laboratory comments and Log No.:
 9212288
 JX YBC

 Geomatrix Consultants
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

Date 12/21/92

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**



Page 1 of 1

Berth 30
Port of Oakland
Project No. 2026.06

9212289

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
01 7-6	12/17/92	22:40	3536	Total CAM 17 metals; WET-Pb; TCLP-Pb; 8240, 8270	Pull 8240 sample first; homogenize entire tube before other analyses as appropriate
02 7-7	12/17/92	23:15	3536	Total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
03 7-15	12/18/92	03:15	3537	Total CAM 17 metals; WET-Pb; TCLP-Pb; 8240, 8270	Pull 8240 sample first; homogenize entire tube before other analyses as appropriate
04 7-16	12/18/92	03:40	3537	Total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
05 7-17	12/18/92	03:55	3537	Total CAM 17 metals; WET-Pb; TCLP-Pb	
06 7-18	12/18/92	07:20	3537	Total CAM 17 metals; WET-Pb; TCLP-Pb; RCI	
07 7-33	12/19/92	03:55	3538	Total CAM 17 metals; WET-Pb; TCLP-Pb	
08 7-34	12/19/92	04:30	3538	Total CAM 17 metals; WET-Pb; TCLP-Pb	
09 7-39	12/19/92	09:05	3539	Total CAM 17 metals; WET-Pb; TCLP-Pb; 8080	
10 7-40	12/19/92	09:30	3539	Total CAM 17 metals; WET-Pb; TCLP-Pb	

Turnaround time: 4 days

Results to: Elizabeth Wells

- Bill Port of Oakland Director
- Requested by GEWELLS
- Use all EPA Methods

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE
CLAYTON PROJECT NO. 92122.89

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212289-01A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921111-06W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02843
Date: 12/21/92
Time: 17:43
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0360	72	0.0320	64	68	59	172	12	22
BENZENE	ND	0.0500	0.0530	106	0.0530	106	106	66	142	0.0	21
CHLOROBENZENE	ND	0.0500	0.0490	98	0.0490	98	98	60	133	0.0	21
TOLUENE	ND	0.0500	0.0480	96	0.0470	94	95	59	139	2.1	21
TRICHLOROETHENE	ND	0.0500	0.0390	78	0.0400	80	79	62	137	2.5	24

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212289-MB
Ext./Prep. Method: EPA3550
Date: 12/22/92
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB270
Instrument ID: 99999
Date: 12/28/92
Time: 23:02
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.98	59	1.83	55	57	38	107	7.9	23
1,4-Dichlorobenzene	ND	3.33	1.95	59	1.80	54	56	28	104	8.0	27
2,4-Dinitrotoluene	ND	3.33	1.95	59	1.70	51	55	28	89	14	47
2-Chlorophenol	ND	3.33	2.19	66	2.05	62	64	25	102	6.6	50
4-Chloro-m-cresol	ND	3.33	1.86	56	1.75	53	54	26	103	6.1	33
4-Nitrophenol	ND	3.33	2.56	77	2.08	62	70	11	114	21	50
Acenaphthene	ND	3.33	2.56	77	2.37	71	74	31	137	7.7	19
N-Nitrosodipropylamine	ND	3.33	2.07	62	1.90	57	60	41	126	8.6	38
Pentachlorophenol	ND	3.33	1.59	48	1.06	32	40	17	109	40	47
Phenol	ND	3.33	1.83	55	1.71	51	53	26	90	6.8	35
Pyrene	ND	3.33	2.62	79	2.35	71	75	35	142	11	36

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212267-MB
Ext./Prep. Method: EPA3550
Date: 12/21/92
Analyst: CN
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/22/92
Time: 02:39
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike		MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result		Duplicate	Result						
4,4'-DDT	ND	0.0400		0.0346	87		0.0280	70	78	32	120	21	50
ALDRIN	ND	0.0400		0.0362	91		0.0316	79	85	34	132	14	43
DIELDRIN	ND	0.0400		0.0315	79		0.0285	71	75	31	134	10	38
ENDRIN	ND	0.0400		0.0346	87		0.0309	77	82	42	139	11	45
GAMMA-BHC (LINDANE)	ND	0.0400		0.0378	95		0.0330	83	89	46	127	14	50
HEPTACHLOR	ND	0.0400		0.0453	113		0.0399	100	107	35	130	13	31

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212289-03A
Ext./Prep. Method: EPA 3050
Date: 12/22/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/23/92
Time: 17:48
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.80	50.0	45.8	86	45.4	85	86	54	123	0.9	25
ARSENIC	7.80	50.0	54.0	92	50.6	86	89	72	115	6.5	25
BARIUM	114	50.0	156	84	161	94	89	46	155	3.2	25
BERYLLIUM	0.140	50.0	47.6	95	46.9	94	94	78	112	1.5	25
CADMIUM	0.200	50.0	47.8	95	47.7	95	95	80	111	0.2	25
CHROMIUM	33.5	50.0	81.0	95	74.0	81	88	60	135	9.0	25
COBALT	8.70	50.0	54.6	92	54.0	91	91	72	114	1.1	25
COPPER	41.9	50.0	97.0	110	91.1	98	104	72	127	6.3	25
LEAD	80.6	50.0	138	115	142	123	119	61	124	2.9	25
MOLYBDENUM	ND	54.0	52.9	98	51.8	96	97	69	119	2.1	25
NICKEL	43.8	50.0	94.3	101	88.6	90	95	54	132	6.2	25
SELENIUM	ND	50.0	46.4	93	45.4	91	92	63	117	2.2	25
SILVER	ND	45.0	44.2	98	43.4	96	97	79	118	1.8	25
SODIUM	897	50.0	948	SOR	936	SOR	SOR	75	125	1.3	25
THALLIUM	5.90	50.0	55.3	99	52.5	93	96	63	115	5.2	25
VANADIUM	30.5	50.0	77.4	94	76.6	92	93	70	122	1.0	25
ZINC	131	50.0	173	84	172	82	83	64	133	0.6	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 921289-04A
Ext./Prep. Method: EPA7471
Date: 12/28/92
Analyst: JSL
Std. Source: A92100701W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 12/28/92
Time: 3 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.310	1.00	1.40	109	1.36	105	107	72	128	2.9	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212289-01A
Ext./Prep. Method: EPA 3010
Date: 12/23/92
Analyst: JSL
Std. Source: A9212101W
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/28/92
Time: 09:57
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.82	96	4.79	96	96	75	125	0.6	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212289-01A
Ext./Prep. Method: EPA 3010
Date: 12/23/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/28/92
Time: 11:03
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	3.85	10.0	13.0	92	13.2	94	93	75	125	1.5	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212272-02A
Ext./Prep. Method: EPA7 3 4 2
Date: 12/28/92
Analyst: TK
Std. Source: BAKER611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7 3 4 2
Instrument ID: 00008
Date: 12/29/92
Time: 11:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	272	268	99	219	81	90	61	111	20	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92122.89

Clayton Lab Number: 9212303-34A
Ext./Prep. Method: EPA9010
Date: 12/28/92
Analyst: TK
Std. Source: BAKER3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 12/29/92
Time: 09:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	9.80	98	9.40	94	96	58	135	4.2	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

December 29, 1992

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 92123.03

Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on December 22, 1992. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Michael Lynch for

Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34
Lab Number: 9212303-34B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/21/92
Date Received: 12/22/92
Date Prepared: 12/22/92
Date Analyzed: 12/22/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34	Date Sampled: 12/21/92
Lab Number: 9212303-34B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34	Date Sampled: 12/21/92
Lab Number: 9212303-34B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	89	70 - 121
Toluene-d8	2037-26-5	88	81 - 117
Bromofluorobenzene	460-00-4	81	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47	Date Sampled: 12/22/92
Lab Number: 9212303-47B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47	Date Sampled: 12/22/92
Lab Number: 9212303-47B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification:	8-47	Date Sampled:	12/22/92
Lab Number:	9212303-47B	Date Received:	12/22/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/22/92
Preparation Method:	EPA 5030	Date Analyzed:	12/22/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	93	70 - 121
Toluene-d8	2037-26-5	88	81 - 117
Bromofluorobenzene	460-00-4	82	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/22/92
Preparation Method: EPA 5030	Date Analyzed: 12/22/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	92	70 - 121
Toluene-d8	2037-26-5	95	81 - 117
Bromofluorobenzene	460-00-4	101	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification:	8-34	Date Sampled:	12/21/92
Lab Number:	9212303-34B	Date Received:	12/22/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/23/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34	Date Sampled: 12/21/92
Lab Number: 9212303-34B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	4	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	4	2
Dibenzofuran	132-64-9	2	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification:	8-34	Date Sampled:	12/21/92
Lab Number:	9212303-34B	Date Received:	12/22/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/23/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	3	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	8	2
Anthracene	120-12-7	2	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	3	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	2	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34
Lab Number: 9212303-34B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/21/92
Date Received: 12/22/92
Date Extracted: 12/22/92
Date Analyzed: 12/23/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	27	25 - 121
Phenol-d6	13127-88-3	25	24 - 113
Nitrobenzene-d5	4165-60-0	23	23 - 120
2-Fluorobiphenyl	321-60-8	52	30 - 115
2,4,6-Tribromophenol	118-79-6	16*	19 - 122
Terphenyl-d14	98904-43-9	50	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification:	8-47	Date Sampled:	12/22/92
Lab Number:	9212303-47B	Date Received:	12/22/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/23/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47	Date Sampled: 12/22/92
Lab Number: 9212303-47B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	ND	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	ND	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47	Date Sampled: 12/22/92
Lab Number: 9212303-47B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	2	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	ND	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	ND	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
 * Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47	Date Sampled: 12/22/92
Lab Number: 9212303-47B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/23/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	32	25 - 121
Phenol-d6	13127-88-3	33	24 - 113
Nitrobenzene-d5	4165-60-0	43	23 - 120
2-Fluorobiphenyl	321-60-8	57	30 - 115
2,4,6-Tribromophenol	118-79-6	16*	19 - 122
Terphenyl-d14	98904-43-9	55	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences
* Surrogate out of control limit due to matrix interference

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212303-53B	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/22/92
Extraction Method:	EPA 3550	Date Analyzed:	12/28/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	87	25 - 121
Phenol-d6	13127-88-3	90	24 - 113
Nitrobenzene-d5	4165-60-0	83	23 - 120
2-Fluorobiphenyl	321-60-8	88	30 - 115
2,4,6-Tribromophenol	118-79-6	91	19 - 122
Terphenyl-d14	98904-43-9	87	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-31	Date Sampled: 12/21/92
Lab Number: 9212303-31B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.02	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.05	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.08	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.2
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ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences.

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-31	Date Sampled: 12/21/92
Lab Number: 9212303-31B	Date Received: 12/22/92
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	91	24	150
Dibutylchloroendate	1770-80-5	91	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212303-53B	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/22/92
Extraction Method: EPA 3550	Date Analyzed: 12/28/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	93	24	150
Dibutylchloroendate	1770-80-5	97	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-2
Lab Number: 9212303-02
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	90	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	6	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	36	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	67	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.4	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	10	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	90	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-6
Lab Number: 9212303-06
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	85	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	49	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	76	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.0	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	10	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-12
Lab Number: 9212303-12
Sample Matrix/Media: SOIL

Date Sampled: 12/19/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	88	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	41	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	81	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	6.9	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-29
Lab Number: 9212303-29
Sample Matrix/Media: SOIL

Date Sampled: 12/21/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	74	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	28	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	24	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	24	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	56	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	3.1	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	58	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-31
Lab Number: 9212303-31
Sample Matrix/Media: SOIL

Date Sampled: 12/21/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	13	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	34	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	33	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	70	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	46	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.5	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	13	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	96	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-34
Lab Number: 9212303-34
Sample Matrix/Media: SOIL

Date Sampled: 12/21/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	88	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	53	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	12/22/92	--	SW 7.1.2
Lead	94	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	1.6	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
pH	8.9	--	S. U.	--	12/23/92	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/29/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/29/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.1	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-35
Lab Number: 9212303-35
Sample Matrix/Media: SOIL

Date Sampled: 12/21/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	11	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	85	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	44	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	86	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	45	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	5.5	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	13	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-37
Lab Number: 9212303-37
Sample Matrix/Media: SOIL

Date Sampled: 12/21/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	36	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	75	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	82	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	5.3	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	12	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	32	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-44
Lab Number: 9212303-44
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	41	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	11	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	28	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	58	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	53	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.9	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	95	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: 8-47
Lab Number: 9212303-47
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/22/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	88	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	34	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	93	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	33	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	7.6	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 92123.03

Sample Identification: METHOD BLANK
Lab Number: 9212303-53
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/28/92	12/28/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/29/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/29/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/22/92	12/28/92	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/23/92	12/28/92	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/28/92	12/28/92	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 12/22/92

Page 1 of 1

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Berth 30
Port of Oakland
Project No. 2026.06

9212303




Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
8-2	12/19/92	14:00	1750	total CAM 17 metals; WET-Pb; TCLP-Pb	homogenize entire tube before analyses
8-6	12/19/92	15:25	1750	total CAM 17 metals; WET-Pb; TCLP-Pb	
8-12	12/19/92	22:30	1750	total CAM 17 metals; WET-Pb; TCLP-Pb	
8-29	12/21/92	11:10	3540	total CAM 17 metals; WET-Pb; TCLP-Pb	
8-31	12/21/92	12:45	3206 3540	total CAM 17 metals; WET-Pb; TCLP-Pb; B080	
8-34	12/21/92	14:15	3206	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270; RCI	Pull volatile sample first, then homogenize entire tube before analyses
8-35	12/21/92	19:50	3206	total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
8-37	12/21/92	20:50	3543	total CAM 17 metals; WET-Pb; TCLP-Pb	
8-44	12/22/92	00:40 21:15	3543	total CAM 17 metals; WET-Pb; TCLP-Pb	
8-47	12/22/92	2:15	3543	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270	Pull volatile sample first, then homogenize entire tube before analyses.
Turnaround time: 4 days				Results to: Elizabeth Wells	

- Requested by EK Wells
- Please use all EPA Methods
- RCI = reactivity, corrosivity, ignitability
- Bill Port of Oakland directly

Chain-of-Custody Record No **3540** Date: **12/19/92** Page **2 of 5**

Project No.: 2026.06			ANALYSES													REMARKS			
Samplers (Signatures): <i>James M. Carolan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	H	T	O	L	P	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																	
12/19	2300	8-13												X	X	S		1	Bill Port of Oakland directly
12/20	0035	8-14												X	X	S		1	
	0100	8-15												X	X	S		1	
	0130	8-16												X	X	S		1	
	0200	8-17												X	X	S		1	
	0230	8-18												X	X	S		1	
	0300	8-19												X	X	S		1	
	0330	8-20												X	X	S		1	
	0400	8-21												X	X	S		1	
✓	0430	8-22												X	X	S		1	
12/21	08:35	8-23												X	X	S		1	
	08:55	8-24												X	X	S		1	
Turnaround time: 5 DAYS			Results to: E.K. Wells						Total No. of containers: 12										

Relinquished by:	Date: 12/22/92	Relinquished by:	Date: 12/22/92	Relinquished by:	Date:	Method of shipment:
Signature:	<i>Jim Mitchell</i>	Signature:	<i>Tracy B Bullock</i>	Signature:		Lab Pickup
Printed name:	JIM MITCHELL	Printed name:	TRACY B Bullock	Printed name:		Laboratory comments and Log No:
Company:	CLAYTON ENV.	Company:	CLAYTON	Company:		2x4BC OK
Received by:	Time: 10:50	Received by:	Time: 11:40 AM	Received by:	Time:	9212303
Signature:	<i>Jim Mitchell</i>	Signature:	<i>Tracy B Bullock</i>	Signature:		 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434-9400
Printed name:	JIM MITCHELL	Printed name:	TRACY B Bullock	Printed name:		
Company:	CLAYTON ENV.	Company:	CLAYTON	Company:		

Chain-of-Custody Record

No. 3206

Date: 12/21/92

Page 3 of 5

Project No.: 2026.06 I

Samplers (Signatures):
James M. Carolan

Date	Time	Sample Number
12/21	09:15	8-25
	09:35	8-26
	10:05	8-27
	10:35	8-28
	11:10	8-29
	11:35	8-30
	11:45	8-31
	13:15	8-32
	13:45	8-33
	14:15	8-34
	1950	8-35
	2015	8-36

ANALYSES											REMARKS			
EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD				Cooled	Soil (S) or water (W)	Acidified	Number of containers
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1
							X				X	S		1

Additional comments
 Bill Port of Oakland
 DIRECTLY

Turnaround time: **HOLD**
 Results to: **Elizabeth Wells**
 Total No. of containers: **12**

Relinquished by:
 Signature: *James M. Carolan*
 Printed name: **Jim Carolan**
 Company: **Geomatrix**

Date: 12/21/92
 Relinquished by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Date: 12/22/92
 Relinquished by:
 Signature:
 Printed name:
 Company:

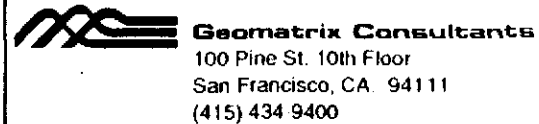
Date: Method of shipment: **Lab Pickup**

Received by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Time: 10:50
 Received by:
 Signature: *Tracy B. Bullock*
 Printed name: **TRACY B. Bullock**
 Company: **CLAYTON**

Time: 11:40 AM
 Received by:
 Signature:
 Printed name:
 Company:

Laboratory comments and Log No.:
9212303
2 & 4 BC ol



Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 92123.03

Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-34A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921111-06W
Sample Matrix/Media: SOIL

Analytical Method: EP88240
Instrument ID: 02843
Date: 12/22/92
Time: 18:18
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result								
1,1-DICHLOROETHENE	ND	0.0500	0.0510		102	0.0550	110	106	59	172	7.5	22
BENZENE	ND	0.0500	0.0560		112	0.0500	100	106	66	142	11	21
CHLOROBENZENE	ND	0.0500	0.0500		100	0.0490	98	99	60	133	2.0	21
TOLUENE	ND	0.0500	0.0510		102	0.0500	100	101	59	139	2.0	21
TRICHLOROETHENE	ND	0.0500	0.0480		96	0.0440	88	92	62	137	8.7	24

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212289-MB
Ext./Prep. Method: EPA3550
Date: 12/22/92
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 99999
Date: 12/28/92
Time: 23:02
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.98	59	1.83	55	57	38	107	7.9	23
1,4-Dichlorobenzene	ND	3.33	1.95	59	1.80	54	56	28	104	8.0	27
2,4-Dinitrotoluene	ND	3.33	1.95	59	1.70	51	55	28	89	14	47
2-Chlorophenol	ND	3.33	2.19	66	2.05	62	64	25	102	6.6	50
4-Chloro-m-cresol	ND	3.33	1.86	56	1.75	53	54	26	103	6.1	33
4-Nitrophenol	ND	3.33	2.56	77	2.08	62	70	11	114	21	50
Acenaphthene	ND	3.33	2.56	77	2.37	71	74	31	137	7.7	19
N-Nitrosodipropylamine	ND	3.33	2.07	62	1.90	57	60	41	126	8.6	38
Pentachlorophenol	ND	3.33	1.59	48	1.06	32	40	17	109	40	47
Phenol	ND	3.33	1.83	55	1.71	51	53	26	90	6.8	35
Pyrene	ND	3.33	2.62	79	2.35	71	75	35	142	11	36

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-31A
Ext./Prep. Method: EPA3550
Date: 12/22/92
Analyst: CN
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/29/92
Time: 03:30
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike Duplicate Result	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)		Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
4,4'-DDT	0.0809	0.0400	0.129	119	0.123	106	113	32	120	4.2	50	
ALDRIN	ND	0.0400	0.0296	74	0.0328	82	78	34	132	10	43	
DIELDRIN	ND	0.0400	0.0298	75	0.0296	74	74	31	134	0.7	38	
ENDRIN	ND	0.0400	0.0304	76	0.0315	79	77	42	139	3.6	45	
GAMMA-BHC (LINDANE)	ND	0.0400	0.0495	124	0.0333	83	104	46	127	39	50	
HEPTACHLOR	ND	0.0400	0.0424	106	0.0416	104	105	35	130	1.9	31	

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-MB
Ext./Prep. Method: EPA3550
Date: 12/22/92
Analyst: CN
Std. Source: 6921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/29/92
Time: 01:35
Analyst: LC
Units: NG/KG

Analyte	Sample Result	Spike Level	Matrix Spike	Matrix Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	ND	0.0400	0.0402	0.0402	101	0.0406	102	101	32	120	1.0	50
ALDRIN	ND	0.0400	0.0369	0.0369	92	0.0366	92	92	34	132	0.8	43
DIELDRIN	ND	0.0400	0.0330	0.0330	83	0.0340	85	84	31	134	3.0	38
ENDRIN	ND	0.0400	0.0363	0.0363	91	0.0371	93	92	42	139	2.2	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0318	0.0318	80	0.0330	83	81	46	127	3.7	50
HEPTACHLOR	ND	0.0400	0.0429	0.0429	107	0.0425	106	107	35	130	0.9	31

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SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212252-01A
Ext./Prep. Method: EPA3050
Date: 12/28/92
Analyst: RAH
Std. Source: VHG20585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/28/92
Time: 4 :
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	1.00	50.0	50.8	100	49.6	97	98	54	123	2.4	25
ARSENIC	2.00	50.0	49.9	96	50.1	96	96	72	115	0.4	25
BARIUM	175	50.0	206	62	205	60	61	46	155	0.5	25
BERYLLIUM	0.300	50.0	48.4	96	47.9	95	96	78	112	1.0	25
CADMIUM	ND	50.0	51.3	103	50.5	101	102	80	111	1.6	25
CHROMIUM	31.0	50.0	75.3	89	74.6	87	88	60	135	0.9	25
COBALT	12.0	50.0	59.9	96	59.5	95	95	72	114	0.7	25
COPPER	27.0	50.0	74.1	94	72.6	91	93	72	127	2.0	25
LEAD	7.00	50.0	56.3	99	55.4	97	98	61	124	1.6	25
MOLYBDENUM	ND	54.0	55.1	102	54.9	102	102	69	119	0.4	25
NICKEL	49.0	50.0	93.2	88	92.0	86	87	54	132	1.3	25
SELENIUM	ND	50.0	43.9	88	47.2	94	91	63	117	7.2	25
SILVER	ND	45.0	45.2	100	44.9	100	100	79	118	0.7	25
THALLIUM	10.0	50.0	60.6	101	60.1	100	101	63	115	0.8	25
VANADIUM	28.0	50.0	74.2	92	72.3	89	91	70	122	2.6	25
ZINC	63.0	50.0	103	80	98.4	71	75	64	133	4.6	25

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-02A
Ext./Prep. Method: EPA3010
Date: 12/28/92
Analyst: JSL
Std. Source: VHG20585
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/28/92
Time: 1 :
Analyst: JSL
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	7.40	10.0	16.7	93	17.1	97	95	75	125	2.4	20

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-02A
Ext./Prep. Method: EPA3010
Date: 12/28/92
Analyst: JSL
Std. Source: A9212101W
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 12/28/92
Time: 2 :
Analyst: JSL
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.78	96	4.85	97	96	75	125	1.5	20

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 921289-04A
Ext./Prep. Method: EPA7471
Date: 12/28/92
Analyst: JSL
Std. Source: A92100701W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 12/28/92
Time: 3 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.310	1.00	1.40	109	1.36	105	107	72	128	2.9	25

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212272-02A
Ext./Prep. Method: EPA7 3 4 2
Date: 12/28/92
Analyst: TK
Std. Source: BAKER611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7 3 4 2
Instrument ID: 00058
Date: 12/29/92
Time: 11:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	272	268	99	219	81	90	61	111	20	25

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Quality Assurance Results Summary
for
Clayton Project No. 92123.03

Clayton Lab Number: 9212303-34A
Ext./Prep. Method: EPA9010
Date: 12/28/92
Analyst: TK
Std. Source: BAKER3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 12/29/92
Time: 09:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	9.80	98	9.40	94	96	58	135	4.2	25

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UCL = Upper Control Limit

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 4, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06 I
Clayton Project No. 92123.32

Dear Ms. Wells:

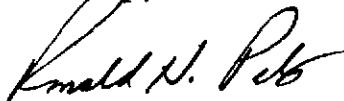
Attached is our analytical laboratory report and quality assurance data package for the samples received on December 28, 1992. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached. Please note that sample 9-4 was received on December 29, 1992. STLC Lead results for this sample will be available on January 5, 1993.

Quality assurance data for TLC metals and comparison of total and STLC lead for some samples indicate that sample inhomogeneity still exists even after the entire core tube is extruded, mixed and passed through a 2 millimeter sieve.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2	Date Sampled: 12/22/92
Lab Number: 9212332-02B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Prepared: 12/28/92
Preparation Method: EPA 5030	Date Analyzed: 12/28/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-2	Date Sampled:	12/22/92
Lab Number:	9212332-02B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/28/92
Preparation Method:	EPA 5030	Date Analyzed:	12/28/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2	Date Sampled: 12/22/92
Lab Number: 9212332-02B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Prepared: 12/28/92
Preparation Method: EPA 5030	Date Analyzed: 12/28/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	100	70 - 121
Toluene-d8	2037-26-5	98	81 - 117
Bromofluorobenzene	460-00-4	94	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-14	Date Sampled:	12/22/92
Lab Number:	9212332-14B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/28/92
Preparation Method:	EPA 5030	Date Analyzed:	12/28/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-14
Lab Number: 9212332-14B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 12/22/92
Date Received: 12/28/92
Date Prepared: 12/28/92
Date Analyzed: 12/28/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-14	Date Sampled:	12/22/92
Lab Number:	9212332-14B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Prepared:	12/28/92
Preparation Method:	EPA 5030	Date Analyzed:	12/28/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	101	81 - 117
Bromofluorobenzene	460-00-4	92	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/28/92
Preparation Method: EPA 5030	Date Analyzed: 12/28/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212332-41A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	12/28/92
Preparation Method:	EPA 5030	Date Analyzed:	12/28/92
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 12/28/92
Preparation Method: EPA 5030	Date Analyzed: 12/28/92
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)	
			LCL	UCL
<u>Purgeable Organics (continued)</u>				
Carbon disulfide	75-15-0	ND	0.005	
Styrene	100-42-5	ND	0.005	
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
1,2-Dichloroethane-d4	17060-07-0	99	70	121
Toluene-d8	2037-26-5	99	81	117
Bromofluorobenzene	460-00-4	104	74	121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-2	Date Sampled:	12/22/92
Lab Number:	9212332-02B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/28/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2	Date Sampled: 12/22/92
Lab Number: 9212332-02B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	0.5	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	0.6	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2	Date Sampled: 12/22/92
Lab Number: 9212332-02B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	0.5	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	1.5	0.2
Anthracene	120-12-7	0.3	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	0.8	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	0.6	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.2	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.2	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2	Date Sampled: 12/22/92
Lab Number: 9212332-02B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	0.4	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	0.2	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

Surrogates

	Recovery (%)	QC Limits (%)	
		LCL	UCL
2-Fluorophenol	367-12-4	46	25 - 121
Phenol-d6	13127-88-3	59	24 - 113
Nitrobenzene-d5	4165-60-0	59	23 - 120
2-Fluorobiphenyl	321-60-8	61	30 - 115
2,4,6-Tribromophenol	118-79-6	42	19 - 122
Terphenyl-d14	98904-43-9	56	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-14	Date Sampled:	12/22/92
Lab Number:	9212332-14B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/28/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-14	Date Sampled: 12/22/92
Lab Number: 9212332-14B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	0.4	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	0.2	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-14	Date Sampled:	12/22/92
Lab Number:	9212332-14B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/28/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	0.2	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	0.6	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	0.5	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	0.4	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.2	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-14	Date Sampled: 12/22/92
Lab Number: 9212332-14B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.4	0.2
Benzo(k)fluoranthene	207-08-9	0.2	0.2
Benzo(a)pyrene	50-32-8	0.3	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	63	25 - 121
Phenol-d6	13127-88-3	64	24 - 113
Nitrobenzene-d5	4165-60-0	53	23 - 120
2-Fluorobiphenyl	321-60-8	66	30 - 115
2,4,6-Tribromophenol	118-79-6	57	19 - 122
Terphenyl-d14	98904-43-9	55	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212332-41A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/28/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/28/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	59	25 - 121
Phenol-d6	13127-88-3	73	24 - 113
Nitrobenzene-d5	4165-60-0	88	23 - 120
2-Fluorobiphenyl	321-60-8	75	30 - 115
2,4,6-Tribromophenol	118-79-6	75	19 - 122
Terphenyl-d14	98904-43-9	68	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	9-12	Date Sampled:	12/22/92
Lab Number:	9212332-12B	Date Received:	12/28/92
Sample Matrix/Media:	SOIL	Date Extracted:	12/29/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	0.05	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.13	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.14	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-12	Date Sampled: 12/22/92
Lab Number: 9212332-12B	Date Received: 12/28/92
Sample Matrix/Media: SOIL	Date Extracted: 12/29/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	96	24 - 150
Dibutylchlorodate	1770-80-5	93	20 - 150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212332-41A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	12/29/92
Extraction Method:	EPA 3550	Date Analyzed:	12/29/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9212332-41A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 12/29/92
Extraction Method: EPA 3550	Date Analyzed: 12/29/92
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	85	24	150
Dibutylchloroendate	1770-80-5	88	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-1
Lab Number: 9212332-01
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	62	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	12/28/92	--	SW 7.1.2
Lead	79	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.1	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
pH	8.8	--	S. U.	--	01/04/93	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/30/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/30/92	--	SW 7.3.4.2
Selenium	1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	8.2	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	19	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-2
Lab Number: 9212332-02
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	10	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	30	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	60	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	150	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	40	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	15	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-4
Lab Number: 9212332-04
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	30	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	51	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	2	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	--a	--	mg/L	--	--	--	--
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection

< Not detected at or above limit of detection

-- Information not available or not applicable

a Data will be available on 01/05/93

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-10
Lab Number: 9212332-10
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	98	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	44	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	11	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	37	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	84	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	72	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	5.4	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-12
Lab Number: 9212332-12
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	15	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	64	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	120	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	36	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	7.2	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	31	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	190	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-14
Lab Number: 9212332-14
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	12	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	46	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	99	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	14	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	7	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	36	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-22
Lab Number: 9212332-22
Sample Matrix/Media: SOIL

Date Sampled: 12/23/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	180	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.7	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	62	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	14	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	50	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	100	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	5.0	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	36	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-27
Lab Number: 9212332-27
Sample Matrix/Media: SOIL

Date Sampled: 12/23/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	120	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	33	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	47	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	46	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	9.4	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	0.3	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-30
Lab Number: 9212332-30
Sample Matrix/Media: SOIL

Date Sampled: 12/23/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	7	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	17	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	89	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	1.4	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	42	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	1.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	3	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	5.4	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	18	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-31
Lab Number: 9212332-31
Sample Matrix/Media: SOIL

Date Sampled: 12/23/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	15	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	70	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	120	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.8	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	42	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	2	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	8.5	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	26	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	32	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: METHOD BLANK
Lab Number: 9212332-41
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	12/30/92	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	12/30/92	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	12/28/92	01/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

12/28/92




Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9-1	12/22/92	9:55	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; RCI	Homogenize entire tube before analyses
9-2	12/22/92	11:50	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270	Pull volatile sample first, then homogenize entire tube for other analyses
9-4	12/22/92	13:45	2824	total CAM-17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
9-10	12/22/92	20:20	2824	total CAM 17 metals WET-Pb; TCLP-Pb	↓
9-12	12/22/92	21:15	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; EGB0	
9-14	12/22/92	22:20	3545	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270	
9-22	12/23/92	04:10	3545	total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
9-27	12/23/92	10:00	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	↓
9-30	12/23/92	11:50	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	
9-31	12/23/92	12:50	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	
Turnaround time: 4 days				Results to: Elizabeth Wells	

- Requested by ER Wells
- RCI = reactivity, corrosivity, ignitability
- Follow all EPA methods
- All Port of Oakland directly

Project No.: 2026.06 I			ANALYSES													REMARKS		
Samplers (Signatures): <i>James M Carol</i> <i>Rafael H</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX					Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																
12/22	09:55	9-1							X					X	S		1	Bill Port of Oakland DIRECTLY
	11:50	9-2							X					X	S		1	
	13:15	9-3							X					X	S		1	
	13:45	9-4							X					X	S		1	
	14:30	9-5							X					X	S		1	
	15:00	9-6							X					X	S		1	
	15:35	9-7							X					X	S		1	
	1730	9-8							X					X	S		1	
	1955	9-9							X					X	S		1	
	2020	9-10							X					X	S		1	
	2045	9-11							X					X	S		1	
✓	2115	9-12							X					X	S		1	
			Turnaround time: HOLD				Results to: Elizabeth Wells				Total No. of containers: 12							

Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:	Method of shipment:
<i>James M Carol</i>	12/20/92	<i>Jim Mitchell</i>	12/28/92			Lab Pickup
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Printed name:		Laboratory comments and Log No.:
Company: Geomatrix		Company: CLAYTON ENV.		Company:		9212332
Received by:	Time:	Received by:	Time:	Received by:	Time:	*Didn't Rec'd sample 9-4
<i>Jim Mitchell</i>	09:30	<i>Terry Salvo</i>	12/22/92			
Printed name: JIM MITCHELL		Printed name: Terry Salvo	10:45 AM	Printed name:		
Company: CLAYTON ENV.		Company: C.E.C.		Company:		
						 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

12/28/92




Berth 30
Port of Oakland
Project No. 2026.06

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
9-1	12/22/92	9:55	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; RCI	Homogenize entire tube before analyses
9-2	12/22/92	11:50	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270	Pull volatile sample first, then homogenize entire tube for other analyses
9-4	12/22/92	13:45	2824	total CAM-17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
9-10	12/22/92	20:20	2824	total CAM 17 metals WET-Pb; TCLP-Pb	↓
9-12	12/22/92	21:15	2824	total CAM 17 metals; WET-Pb; TCLP-Pb; EGB0	
9-14	12/22/92	22:20	3545	total CAM 17 metals; WET-Pb; TCLP-Pb; B240; B270	
9-22	12/23/92	04:10	3545	total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
9-27	12/23/92	10:00	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	↓
9-30	12/23/92	11:50	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	
9-31	12/23/92	12:50	2800	total CAM 17 metals; WET-Pb; TCLP-Pb	
Turnaround time: 4 days				Results to: Elizabeth Wells	

- Requested by ER Wells
- RCI = reactivity, corrosivity, ignitability
- Follow all EPA methods
- All Port of Oakland directly

Project No.: 2026.06 I			ANALYSES													REMARKS		
Samplers (Signatures): <i>James M Carol</i> <i>Rafael H...</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX					Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																
12/22	09:55	9-1												X	S		1	Bill Port of Oakland DIRECTLY
	11:50	9-2												X	S		1	
	13:15	9-3												X	S		1	
	13:45	9-4												X	S		1	
	14:30	9-5												X	S		1	
	15:00	9-6												X	S		1	
	15:35	9-7												X	S		1	
	1730	9-8												X	S		1	
	1955	9-9												X	S		1	
	2020	9-10												X	S		1	
	2045	9-11												X	S		1	
✓	2115	9-12												X	S		1	

Turnaround time: HOLD		Results to: Elizabeth Wells		Total No. of containers: 12	
Relinquished by:	Date:	Relinquished by:	Date:	Relinquished by:	Date:
Signature: <i>James M Carol</i>	12/20/92	Signature: <i>Jim Mitchell</i>	12/28/92	Signature:	
Printed name: Jim Carolan		Printed name: JIM MITCHELL		Printed name:	
Company: Geomatrix		Company: CLAYTON ENV.		Company:	
Received by:	Time:	Received by:	Time:	Received by:	Time:
Signature: <i>Jim Mitchell</i>	09:30	Signature: <i>Terry Salvo</i>	12/22/92	Signature:	
Printed name: JIM MITCHELL		Signature: <i>Terry Salvo</i>	10:45 AM	Printed name:	
Company: CLAYTON ENV.		Company: C.E.C.		Company:	
				Method of shipment: Lab Pickup	
				Laboratory comments and Log No.: 9212332	
				*Didn't Rec'd sample 9-4	
				 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400	


Chain-of-Custody Record

No. 3545

Date: 12/22/92

Page 2 of 4

Project No.: 2026.06			ANALYSES														REMARKS						
Samplers (Signatures): <i>James M Carolan</i> <i>Jeffrey Hagan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX												Additional comments		
Date	Time	Sample Number																					
12/22	2145	9-13								X													Bill Port of Oakland directly
	2220	9-14								X													
	2245	9-15								X													
	2305	9-16								X													
12/23	0045	9-17								X													
	0125	9-18								X													
	0150	9-19								X													
	0215	9-20								X													
	0325	9-21								X													
	0410	9-22								X													
	0430	9-23								X													
12/23	08:30	9-24								X													
Turnaround time: HOLD			Results to: E. K. Wells										Total No. of containers: 1										

Relinquished by: <i>James M Carolan</i> Printed name: James M Carolan Company: Geomatrix	Date: 12/22/92	Relinquished by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Date: 12/28/92	Relinquished by:	Date:	Method of shipment: LAB Pickup
Received by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 09:30	Received by: <i>Terry Salvo</i> Printed name: TERRY SALVO Company: C.F.C.	Time: 12/28/92 10:45A	Received by:	Time:	Laboratory comments and Log No.: 9212332
				 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400		

Chain-of-Custody Record

No. 2801

Date: 12/23/92

Page 4 of 4

Project No.: 2026.06			ANALYSES														REMARKS																
Samplers (Signatures): Jeffrey Hasan James M. Carola			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX															Additional comments									
Date	Time	Sample Number																															
12/23	21:15	9-37																															Bill Port of Oakland directly.
	21:40	9-38																															
	22:05	9-39																															
	22:40	9-40																															
			Turnaround time: Hold							Results to: Elizabeth Wells							Total No. of containers: 4																

Relinquished by:		Date:	Relinquished by:		Date:	Relinquished by:		Date:	Method of shipment:	
Signature: James M. Carola		12/28/92	Signature: Jim Mitchell		12/28/92	Signature:		10:45 AM	Pick-up	
Printed name: Jim Carola			Printed name: JIM MITCHELL			Printed name:			Laboratory comments and Log No:	
Company: Geomatrix			Company: CLAYTON ENV.			Company:			9212332	
Received by:		Time:	Received by:		Time:	Received by:		Time:		
Signature: Jim Mitchell		09:30	Signature: Terry Salvo		10:45 AM	Signature:		10:45 AM		
Printed name: JIM MITCHELL			Printed name: C.F.E.			Printed name:				
Company: CLAYTON ENV.			Company:			Company:				

Geomatrix Consultants
 100 Pine St. 10th Floor
 San Francisco, CA. 94111
 (415) 434-9400

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 5, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

REVISED REPORT
Client Ref. 2026.06 I
Clayton Project No. 92123.32

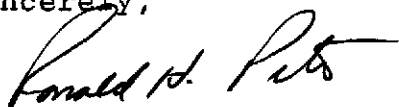
Dear Ms. Wells:

Attached is our revised page for analytical laboratory report for the samples received on December 28, 1992 and reported to you on January 4, 1992. STLC Lead results for sample 9-4 are presented in this report.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06 I
Clayton Project No. 92123.32

Sample Identification: 9-4
Lab Number: 9212332-04
Sample Matrix/Media: SOIL

Date Sampled: 12/22/92
Date Received: 12/28/92

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Chromium	30	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Copper	51	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	12/30/92	12/30/92	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Selenium	2	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
STLC Lead	9.2	0.1	mg/L	12/31/93	01/05/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	12/29/92	01/04/93	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	12/30/92	01/04/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-04A
Ext./Prep. Method: EPA 3010
Date: 01/04/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/05/93
Time: 01:
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	9.20	10.0	18.5	93	18.5	93	93	75	125	0.0	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 92123.32

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-02A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02843
Date: 12/28/92
Time: 20:14
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0480	96	0.0400	80	88	59	172	18	22
BENZENE	ND	0.0500	0.0580	116	0.0590	118	117	66	142	1.7	21
CHLOROBENZENE	ND	0.0500	0.0550	110	0.0540	108	109	60	133	1.8	21
TOLUENE	ND	0.0500	0.0490	98	0.0520	104	101	59	139	5.9	21
TRICHLOROETHENE	ND	0.0500	0.0530	106	0.0530	106	106	62	137	0.0	24

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Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212308-01A
Ext./Prep. Method: EPA3550
Date: 12/28/92
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 12/29/92
Time: 18:17
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.85	56	1.92	58	57	38	107	3.7	23
1,4-Dichlorobenzene	ND	3.33	1.92	58	2.10	63	60	28	104	9.0	27
2,4-Dinitrotoluene	ND	3.33	1.47	44	1.90	57	51	28	89	26	47
2-Chlorophenol	ND	3.33	2.09	63	2.12	64	63	25	102	1.4	50
4-Chloro-m-cresol	ND	3.33	1.75	53	1.81	54	53	26	103	3.4	33
4-Nitrophenol	ND	3.33	1.20	36	1.14	34	35	11	114	5.1	50
Acenaphthene	ND	3.33	2.29	69	2.23	67	68	31	137	2.7	19
N-Nitrosodipropylamine	ND	3.33	2.12	64	2.20	66	65	41	126	3.7	38
Pentachlorophenol	ND	3.33	1.71	51	1.96	59	55	17	109	14	47
Phenol	ND	3.33	1.55	47	1.35	41	44	26	90	14	35
Pyrene	ND	3.33	1.84	55	2.24	67	61	35	142	20	36

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Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212343-MB
Ext./Prep. Method: EPA3550
Date: 12/29/92
Analyst: STF
Std. Source: G920107-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/30/92
Time: 01:37
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result								
4,4'-DDT	ND	0.0400	0.0260	65	0.0310	78	71	32	120	18	50	
ALDRIN	ND	0.0400	0.0290	73	0.0320	80	76	34	132	9.8	43	
DIELDRIN	ND	0.0400	0.0270	68	0.0290	73	70	31	134	7.1	38	
ENDRIN	ND	0.0400	0.0280	70	0.0300	75	73	42	139	6.9	45	
GAMMA-BHC (LINDANE)	ND	0.0400	0.0290	73	0.0330	83	78	46	127	13	50	
HEPTACHLOR	ND	0.0400	0.0340	85	0.0370	93	89	35	130	8.5	31	

LCS = Laboratory Control Sample
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Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-12A
Ext./Prep. Method: EPA3550
Date: 12/29/92
Analyst: STF
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/30/92
Time: 17:34
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	0.107	0.0400	0.150	108	0.145	95	101	32	120	3.4	50
ALDRIN	ND	0.0400	0.0340	85	0.0390	98	91	34	132	14	43
DIELDRIN	ND	0.0400	0.0380	95	0.0390	98	96	31	134	2.6	38
ENDRIN	ND	0.0400	0.0440	110	0.0490	123	116	42	139	11	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0320	80	0.0310	78	79	46	127	3.2	50
HEPTACHLOR	ND	0.0400	0.0420	105	0.0390	98	101	35	130	7.4	31

Note: Final results for 4,4'-DDT was generated from 5x dilution run.

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UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-02A
Ext./Prep. Method: EPA 3050
Date: 12/30/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: Q3891
Date: 01/04/93
Time: 10:15
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.70	50.0	38.9	72	45.8	86	79	54	123	16	25
ARSENIC	9.60	50.0	5.25	-9	57.1	95	43*	72	115	170*	25
BARIUM	108	50.0	161	106	141	66	86	46	155	13	25
BERYLLIUM	0.210	50.0	47.8	95	47.2	94	95	78	112	1.3	25
CADMIUM	0.350	50.0	48.6	97	48.1	96	96	80	111	1.0	25
CHROMIUM	29.9	50.0	76.6	93	228	396	245*	60	135	99*	25
COBALT	8.80	50.0	54.2	91	56.9	96	94	72	114	4.9	25
COPPER	60.4	50.0	114	107	106	91	99	72	127	7.3	25
LEAD	153	50.0	172	38	164	22	30*	61	124	4.8	25
MOLYBDENUM	ND	54.0	44.9	83	45.5	84	84	69	119	1.3	25
NICKEL	39.6	50.0	86.7	94	167	255	175*	54	132	63*	25
SELENIUM	ND	50.0	46.3	93	51.9	104	98	63	117	11	25
SILVER	ND	45.0	46.6	104	46.3	103	103	79	118	0.7	25
THALLIUM	8.80	50.0	50.0	82	55.9	94	88	63	115	11	25
VANADIUM	28.1	50.0	79.2	102	76.7	97	100	70	122	3.2	25
ZINC	152	50.0	273	242	210	116	179*	64	133	26*	25

LCS = Laboratory Control Sample
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SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-04A
Ext./Prep. Method: EPA 3050
Date: 12/30/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/04/93
Time: 10:26
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	4.50	50.0	39.3	70	41.3	74	72	54	123	5.0	25
ARSENIC	5.20	50.0	55.9	101	54.1	98	100	72	115	3.3	25
BARIUM	104	50.0	155	102	141	74	88	46	155	9.5	25
BERYLLIUM	0.210	50.0	48.6	97	49.6	99	98	78	112	2.0	25
CADMIUM	0.510	50.0	49.2	97	48.5	96	97	80	111	1.4	25
CHROMIUM	29.6	50.0	80.2	101	74.2	89	95	60	135	7.8	25
COBALT	8.60	50.0	57.0	97	55.6	94	95	72	114	2.5	25
COPPER	51.1	50.0	108	114	96.4	91	102	72	127	11	25
LEAD	112	50.0	178	132	330	436	284*	61	124	60*	25
MOLYBDENUM	ND	54.0	47.2	87	45.6	84	86	69	119	3.4	25
NICKEL	38.4	50.0	89.3	102	82.6	88	95	54	132	7.8	25
SELENIUM	2.00	50.0	48.1	92	49.1	94	93	63	117	2.1	25
SILVER	ND	45.0	47.3	105	47.5	106	105	79	118	0.4	25
THALLIUM	8.30	50.0	49.5	82	52.7	89	86	63	115	6.3	25
VANADIUM	25.7	50.0	79.0	107	75.2	99	103	70	122	4.9	25
ZINC	160	50.0	199	78	175	30	54*	64	133	13	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-10A
Ext./Prep. Method: EPA 3050
Date: 12/30/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/04/93
Time: 10:38
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.10	50.0	39.3	74	38.2	72	73	54	123	2.8	25
ARSENIC	4.90	50.0	48.1	86	47.7	86	86	72	115	0.8	25
BARIUM	97.7	50.0	158	121	210	225	173*	46	155	28*	25
BERYLLIUM	0.210	50.0	48.2	96	46.9	93	95	78	112	2.7	25
CADMIUM	0.550	50.0	47.9	95	47.0	93	94	80	111	1.9	25
CHROMIUM	43.5	50.0	83.0	79	85.9	85	82	60	135	3.4	25
COBALT	10.7	50.0	56.5	92	57.4	93	93	72	114	1.6	25
COPPER	36.6	50.0	98.2	123	86.5	100	112	72	127	13	25
LEAD	83.9	50.0	192	216	128	88	152*	61	124	40*	25
MOLYBDENUM	ND	54.0	45.9	85	44.7	83	84	69	119	2.6	25
NICKEL	71.6	50.0	107	71	126	109	90	54	132	16	25
SELENIUM	ND	50.0	47.5	95	43.1	86	91	63	117	9.7	25
SILVER	ND	45.0	48.0	107	47.1	105	106	79	118	1.9	25
THALLIUM	6.60	50.0	52.5	92	49.7	86	89	63	115	5.5	25
VANADIUM	31.0	50.0	78.9	96	76.7	91	94	70	122	2.8	25
ZINC	126	50.0	197	142	168	84	113	64	133	16	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-02A
Ext./Prep. Method: EPA7471
Date: 12/30/92
Analyst: JSL
Std. Source: A92122801W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 12/30/92
Time: 2 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.330	1.00	1.39	106	1.27	94	100	72	128	9.0	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.
UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-02A
Ext./Prep. Method: EPA 3010
Date: 12/30/92
Analyst: JSL
Std. Source: VHG 2-0585
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/04/93
Time: 11:56
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	15.2	10.0	23.7	85	23.9	87	86	75	125	0.8	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-04A
Ext./Prep. Method: EPA 3010
Date: 12/30/92
Analyst: JSL
Std. Source: A9212101W
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/04/93
Time: 01:00
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.69	94	4.80	96	95	75	125	2.3	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-01A
Ext./Prep. Method: EPA7 3 4 2
Date: 12/30/92
Analyst: TK
Std. Source: BAKER611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7 3 4 2
Instrument ID: 00008
Date: 12/30/92
Time: 03:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	188	161	86	129	69	77	61	111	22	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 92123.32

Clayton Lab Number: 9212332-01A
Ext./Prep. Method: EPA9010
Date: 12/30/92
Analyst: TK
Std. Source: BAKER3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 12/30/92
Time: 05:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike	Matrix Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	8.00	80	7.50	75	78	58	135	6.5	25	

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 8, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 93010.04

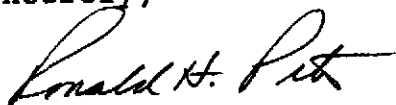
Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on January 4, 1993. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13	Date Sampled: 12/30/92
Lab Number: 9301004-13B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Prepared: 01/04/93
Preparation Method: EPA 5030	Date Analyzed: 01/04/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13	Date Sampled: 12/30/92
Lab Number: 9301004-13B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Prepared: 01/04/93
Preparation Method: EPA 5030	Date Analyzed: 01/04/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.016	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.018	0.005
o-Xylene	95-47-6	0.009	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13	Date Sampled: 12/30/92
Lab Number: 9301004-13B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Prepared: 01/04/93
Preparation Method: EPA 5030	Date Analyzed: 01/04/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	101	70 - 121
Toluene-d8	2037-26-5	96	81 - 117
Bromofluorobenzene	460-00-4	86	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	10-19	Date Sampled:	12/30/92
Lab Number:	9301004-19B	Date Received:	01/04/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/05/93
Preparation Method:	EPA 5030	Date Analyzed:	01/05/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-19	Date Sampled: 12/30/92
Lab Number: 9301004-19B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Prepared: 01/05/93
Preparation Method: EPA 5030	Date Analyzed: 01/05/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.006	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	10-19	Date Sampled:	12/30/92
Lab Number:	9301004-19B	Date Received:	01/04/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/05/93
Preparation Method:	EPA 5030	Date Analyzed:	01/05/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	98	81 - 117
Bromofluorobenzene	460-00-4	91	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301004-49A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/04/93
Preparation Method:	EPA 5030	Date Analyzed:	01/04/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301004-49A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/04/93
Preparation Method:	EPA 5030	Date Analyzed:	01/04/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301004-49A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 01/04/93
Preparation Method: EPA 5030	Date Analyzed: 01/04/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	98	81 - 117
Bromofluorobenzene	460-00-4	88	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	10-13	Date Sampled:	12/30/92
Lab Number:	9301004-13B	Date Received:	01/04/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/05/93
Extraction Method:	EPA 3550	Date Analyzed:	01/06/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	5
Pentachlorophenol	87-86-5	ND	5
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
Benzyl alcohol	100-51-6	ND	2
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13
Lab Number: 9301004-13B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/30/92
Date Received: 01/04/93
Date Extracted: 01/05/93
Date Analyzed: 01/06/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Benzoic acid	65-85-0	ND	4
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	6	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	1	1
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	1
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	4	1
Dibenzofuran	132-64-9	2	1

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13	Date Sampled: 12/30/92
Lab Number: 9301004-13B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Extracted: 01/05/93
Extraction Method: EPA 3550	Date Analyzed: 01/06/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	3	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	9	1
Anthracene	120-12-7	2	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	3	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	2	1
Benzylbutylphthalate	85-68-7	ND	1
3,3'-dichlorobenzidine	91-94-1	ND	30
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13
Lab Number: 9301004-13B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/30/92
Date Received: 01/04/93
Date Extracted: 01/05/93
Date Analyzed: 01/06/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Base/Neutral Extractables (continued)

Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	102	25 -	121
Phenol-d6	13127-88-3	104	24 -	113
Nitrobenzene-d5	4165-60-0	66	23 -	120
2-Fluorobiphenyl	321-60-8	115	30 -	115
2,4,6-Tribromophenol	118-79-6	95	19 -	122
Terphenyl-d14	98904-43-9	87	18 -	137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-19	Date Sampled: 12/30/92
Lab Number: 9301004-19B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Extracted: 01/05/93
Extraction Method: EPA 3550	Date Analyzed: 01/06/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	5
Pentachlorophenol	87-86-5	ND	5

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
Benzyl alcohol	100-51-6	ND	2
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-19	Date Sampled: 12/30/92
Lab Number: 9301004-19B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Extracted: 01/05/93
Extraction Method: EPA 3550	Date Analyzed: 01/06/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Benzoic acid	65-85-0	ND	4
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	2	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	ND	1
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	1
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	1	1
Dibenzofuran	132-64-9	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	10-19	Date Sampled:	12/30/92
Lab Number:	9301004-19B	Date Received:	01/04/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/05/93
Extraction Method:	EPA 3550	Date Analyzed:	01/06/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	1	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	3	1
Anthracene	120-12-7	ND	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	1	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	1	1
Benzylbutylphthalate	85-68-7	ND	1
3,3'-dichlorobenzidine	91-94-1	ND	30
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-19
Lab Number: 9301004-19B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 12/30/92
Date Received: 01/04/93
Date Extracted: 01/05/93
Date Analyzed: 01/06/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	80	25 - 121
Phenol-d6	13127-88-3	92	24 - 113
Nitrobenzene-d5	4165-60-0	62	23 - 120
2-Fluorobiphenyl	321-60-8	100	30 - 115
2,4,6-Tribromophenol	118-79-6	62	19 - 122
Terphenyl-d14	98904-43-9	80	18 - 137

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301004-49A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/05/93
Extraction Method:	EPA 3550	Date Analyzed:	01/06/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301004-49A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/05/93
Extraction Method: EPA 3550	Date Analyzed: 01/06/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301004-49A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/05/93
Extraction Method:	EPA 3550	Date Analyzed:	01/06/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzydine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301004-49A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/05/93
Extraction Method: EPA 3550	Date Analyzed: 01/06/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	72	25 - 121
Phenol-d6	13127-88-3	78	24 - 113
Nitrobenzene-d5	4165-60-0	68	23 - 120
2-Fluorobiphenyl	321-60-8	94	30 - 115
2,4,6-Tribromophenol	118-79-6	93	19 - 122
Terphenyl-d14	98904-43-9	84	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	10-4	Date Sampled:	12/29/92
Lab Number:	9301004-04B	Date Received:	01/04/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/04/93
Extraction Method:	EPA 3550	Date Analyzed:	01/05/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.02
gamma-BHC (Lindane)	58-89-9	ND	0.02
beta-BHC	319-85-7	ND	0.02
Heptachlor	76-44-8	ND	0.02
delta-BHC	319-86-8	ND	0.02
Aldrin	309-00-2	ND	0.02
Heptachlor epoxide	1024-57-3	ND	0.02
Endosulfan I	959-98-8	ND	0.02
4,4'-DDE	72-55-9	ND	0.02
Dieldrin	60-57-1	ND	0.02
Endrin	72-20-8	ND	0.02
4,4'-DDD	72-54-8	0.06	0.02
Endosulfan II	33212-65-9	ND	0.02
4,4'-DDT	50-29-3	0.08	0.02
Endrin aldehyde	7421-93-4	ND	0.02
Endosulfan sulfate	1031-07-8	ND	0.02
Methoxychlor	72-43-5	ND	0.1
Chlordane	57-74-9	ND	0.1
Toxaphene	8001-35-2	ND	1

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.2
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-4	Date Sampled: 12/29/92
Lab Number: 9301004-04B	Date Received: 01/04/93
Sample Matrix/Media: SOIL	Date Extracted: 01/04/93
Extraction Method: EPA 3550	Date Analyzed: 01/05/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.2
Aroclor 1232	11141-16-5	ND	0.2
Aroclor 1242	53469-21-9	ND	0.2
Aroclor 1248	12672-29-6	ND	0.2
Aroclor 1254	11097-69-1	ND	0.2
Aroclor 1260	11096-82-5	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	88	24	150
Dibutylchloroendate	1770-80-5	89	20	150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301004-49A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/04/93
Extraction Method:	EPA 3550	Date Analyzed:	01/05/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.03
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: METHOD BLANK
Lab Number: 9301004-49A
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: --
Date Received: --
Date Extracted: 01/04/93
Date Analyzed: 01/05/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	100	24 - 150
Dibutylchloroendate	1770-80-5	103	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-4
Lab Number: 9301004-04
Sample Matrix/Media: SOIL

Date Sampled: 12/29/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	71	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	120	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	86	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	5.2	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-7
Lab Number: 9301004-07
Sample Matrix/Media: SOIL

Date Sampled: 12/29/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	83	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	100	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	5.7	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	10	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-11
Lab Number: 9301004-11
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	76	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	95	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	94	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	6.0	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	240	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-12
Lab Number: 9301004-12
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	99	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	100	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	2	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	3.7	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	16	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	180	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-13
Lab Number: 9301004-13
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.4	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	33	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	120	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	140	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	36	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	7.1	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	15	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	36	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	190	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-15
Lab Number: 9301004-15
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	16	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	73	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	1.3	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	33	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	3.7	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	15	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	1,300	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-19
Lab Number: 9301004-19
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	67	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	37	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	11	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-24
Lab Number: 9301004-24
Sample Matrix/Media: SOIL

Date Sampled: 12/30/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	10	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	91	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	55	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	95	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	5.6	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	350	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-29
Lab Number: 9301004-29
Sample Matrix/Media: SOIL

Date Sampled: 12/31/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	85	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	46	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	01/04/93	--	SW 7.1.2
Lead	120	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
pH	10.9	--	S.U.	--	01/05/93	--	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	--	01/05/93	--	EPA 9010
Reactive Sulfide	10	10	mg/kg	--	01/07/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	16	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	11	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: 10-48
Lab Number: 9301004-48
Sample Matrix/Media: SOIL

Date Sampled: 12/31/92
Date Received: 01/04/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	7	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	78	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	6	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	58	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	120	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	6.8	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/07/93	EPA 1311	EPA 6010
Thallium	9	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93010.04

Sample Identification: METHOD BLANK
Lab Number: 9301004-49
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	01/06/93	01/06/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	01/05/93	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	01/07/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	01/04/93	01/07/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/05/93	01/06/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	01/05/93	01/06/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 1/4/93

0201000

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Page 1 of 1

Berth 30
Port of Oakland
Project No. 2026.06

Due: 1/8/93

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
10-4	12/29/92	19:00	2806	total CAM 17 metals; WET Pb; TELP lead; BOB.	Homogenize entire tube before analyses
10-7	12/29/92	21:30	2806	total CAM 17 metals; WET Pb; TELP Pb;	↓
10-11	12/30/92	01:15	2806	total CAM 17 metals; WET Pb; TELP Pb;	
10-12	12/30/92	07:30	2806	total CAM 17 metals; WET Pb; TELP Pb	
10-13	12/30/92	08:00	541	total CAM 17 metals; WET Pb; TELP Pb; B290; B270.	
10-15	12/30/92	08:48	541	total CAM 17 metals; WET Pb; TELP Pb	Homogenize entire tube before analyses
10-19	12/30/92	11:55	541	total CAM 17 metals; WET Pb; TELP Pb; B290; B270.	Pick B290 sample first; homogenize entire tube before other analyses as appropriate.
10-24	12/30/92	19:45	541	total CAM 17 metals; WET Pb; TELP Pb	Homogenize entire tube before analyses.
10-29	12/30/92	01:25	3484	total CAM 17 metals; WET Pb; TELP Pb; RCI.	↓
10-48	12/31/92	14:15	3485	total CAM 17 metals; WET Pb; TELP Pb.	
Turnaround time: <u>↑</u> days				Results to: Elizabeth K. Wells	

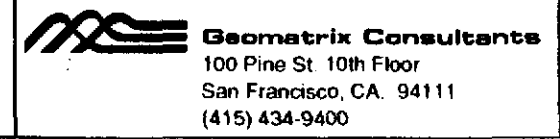
- Bill Port of Oakland directly
- Requested by JMA
- Use all EPA Methods

Chain-of-Custody Record No. 2806 Date: 12/29/92 Page 1 of 4

Project No.: 2026.06 I			ANALYSES										REMARKS							
Samplers (Signatures): James M Cardon Tim Kewsch Jeffrey Hasan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX											Additional comments
Date	Time	Sample Number																		
12/29	14:20	10-1														X	S	1	Bill Port of Oakland DIRECTLY	
	15:10	10-2														X	S	1		
	15:35	10-3														X	S	1		
	19:20	10-4														X	S	1		
	20:05	10-5														X	S	1		
	20:40	10-6														X	S	1		
	21:30	10-7														X	S	1		
	22:20	10-8														X	S	1		
	22:40	10-9														X	S	1		
	23:15	10-10														X	S	1		
12/30	1:15	10-11														X	S	1		
	07:30	10-12														X	S	1		

Turnaround time: HOLD Results to: Elizabeth Wells Total No. of containers: 12

Relinquished by: Signature: Jeffrey Hasan Printed name: JEFFREY HASAN Company: GEOMATRIX	Date: 12/31/92	Relinquished by: Signature: Tim Kewsch Printed name: Tim Kewsch Company: Geomatrix	Date: 1/4/93	Relinquished by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CLAYTON	Date: 1/4/93	Method of shipment: Lab Pickup
Received by: Signature: Tim Kewsch Printed name: Tim Kewsch Company: Geomatrix	Time: 9:00	Received by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 10:10 AM	Received by: Signature: Terry Salvo Printed name: TERRY SALVO Company: C.E.C.	Time: 12:00	Laboratory comments and Log No.:



Chain-of-Custody Record

No. **541**

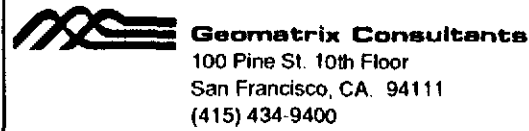
Date: **12/30/92**

Page **2** of **4**

Project No.: 2026.06 I			ANALYSES												REMARKS								
Samplers (Signatures): <i>James M Carolan</i> <i>Tim Kewchen</i> <i>Jeffrey Hasan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD									Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number																					
12/30	08:00	10-13								X									X	S		1	Bill Port of Oakland DIRECTLY
	08:20	10-14								X									X	S		1	
	08:40	10-15								X									X	S		1	
	09:20	10-16								X									X	S		1	
	10:50	10-17								X									X	S		1	
	11:20	10-18								X									X	S		1	
	11:55	10-19								X									X	S		1	
	13:25	10-20								X									X	S		1	
	14:05	10-21								X									X	S		1	
	15:00	10-22								X									X	S		1	
	19:05	10-23								X									X	S		1	
✓	19:45	10-24								X									X	S		1	

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: <i>Jeffrey Hasan</i> Printed name: JEFFREY HASAN Company: GEOMATRIX	Date: 12/31/92	Relinquished by: <i>Tim Kewchen</i> Printed name: Tim Kewchen Company: Geomatrix	Date: 1/4/93	Relinquished by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON	Date: 1/4/93	Method of shipment: Lab Pickup
Received by: <i>Tim Kewchen</i> Printed name: Tim Kewchen Company: Geomatrix	Time: 9:00	Received by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV	Time: 10:10 Am	Received by: <i>Terry Salvo</i> Printed name: C.E. Salvo Company:	Time: 12:00	Laboratory comments and Log No.:

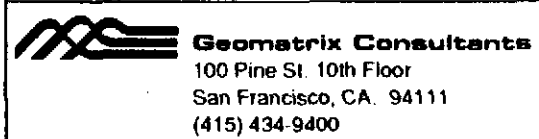


Chain-of-Custody Record No. **3484** Date: **12/31/92** Page **3** of **4**

Project No.: 2026.06 I			ANALYSES												REMARKS							
Samplers (Signatures): <i>Tom Kewcher</i> <i>Jeffrey Hasan</i>			EPA Method 9010	EPA Method 9020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD								Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments Bill Port of Oakland DIRECTLY
Date	Time	Sample Number																				
12/30	20:40	10-25								X								X	S		1	
	21:35	10-26								X								X	S		1	
	22:15	10-27								X								X	S		1	
↓	22:55	10-28								X								X	S		1	
12/31	1:25	10-29								X								X	S		1	
	1:50	10-30								X								X	S		1	
	2:25	10-31								X								X	S		1	
	2:45	10-32								X								X	S		1	
	3:10	10-33								X								X	S		1	
	3:40	10-34								X								X	S		1	
	4:30	10-35								X								X	S		1	
↓	07:15	10-36								X								X	S		1	

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: <i>Jeffrey Hasan</i> Printed name: JEFFREY HASAN Company: GEOMATRIX	Date: 12/31/92	Relinquished by: <i>Tom Kewcher</i> Printed name: TIM KEWCHER Company: GEOMATRIX	Date: 1/4/93	Relinquished by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON	Date: 1/4/93	Method of shipment: Lab Pickup
Received by: <i>Tom Kewcher</i> Printed name: TIM KEWCHER Company: GEOMATRIX	Time: 9:00	Received by: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CLAYTON ENV.	Time: 10:10 AM	Received by: <i>Terry Salta</i> Printed name: C.E.C. Company:	Time: 2:00	Laboratory comments and Log No.:



9201004

Chain-of-Custody Record No. 3485 Date: 12/31/92 Page 4 of 4

Project No.: 2026.06 I			ANALYSES												REMARKS												
Samplers (Signatures): <i>Jeffrey Hasan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD														Additional comments			
Date	Time	Sample Number																							Bill Port of Oakland directly.		
12/31	07:40	10-37									X											X	S	1			
	08:10	10-38									X											X	S	1			
	08:40	10-39									X											X	S	1			
	09:15	10-40									X											X	S	1			
	09:45	10-41									X											X	S	1			
	10:25	10-42									X											X	S	1			
	10:50	10-43									X											X	S	1			
	11:10	10-44									X											X	S	1			
	11:40	10-45									X											X	S	1			
	13:00	10-46									X											X	S	1			
	13:30	10-47									X											X	S	1			
	14:15	10-48									X											X	S	1			

Turnaround time: HOLD		Results to: Elizabeth Wells		Total No. of containers: 12	
Relinquished by:		Date:	Relinquished by:		Date:
Signature: <i>Jeffrey Hasan</i>		2/31/92	Signature: <i>Jim Keuscha</i>		1/4/93
Printed name: JEFFREY HASAN			Printed name: TIM KEUSCHA		
Company: GEOMATRIX			Company: GEOMATRIX		
Received by:		Time:	Received by:		Time:
Signature: <i>Jim Keuscha</i>		9:00	Signature: <i>Jim Mitchell</i>		10:10 AM
Printed name: TIM KEUSCHA			Printed name: JIM MITCHELL		
Company: GEOMATRIX			Company: CLAYTON ENV.		
Relinquished by:		Date:	Relinquished by:		Date:
Signature: <i>Jim Mitchell</i>		1/4/93	Signature: <i>Jim Mitchell</i>		1/4/93
Printed name: JIM MITCHELL			Printed name: JIM MITCHELL		
Company: CLAYTON			Company: CLAYTON		
Received by:		Time:	Received by:		Time:
Signature: <i>Terry Salvo</i>		12:00	Signature: <i>Terry Salvo</i>		12:00
Printed name: TERRY SALVO			Printed name: TERRY SALVO		
Company: C.E.C.			Company: C.E.C.		
Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400					

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 93010.04

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-13A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02831
Date: 01/04/93
Time: 20:34
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0390	78	0.0400	80	79	59	172	2.5	22
BENZENE	ND	0.0500	0.0430	86	0.0420	84	85	66	142	2.4	21
CHLOROBENZENE	ND	0.0500	0.0380	76	0.0340	68	72	60	133	11	21
TOLUENE	ND	0.0500	0.0440	88	0.0440	88	88	59	139	0.0	21
TRICHLOROETHENE	ND	0.0500	0.0410	82	0.0400	80	81	62	137	2.5	24

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-19A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02831
Date: 01/05/93
Time: 16:04
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0350	70	0.0390	78	74	59	172	11	22
BENZENE	ND	0.0500	0.0360	72	0.0400	80	76	66	142	11	21
CHLOROBENZENE	ND	0.0500	0.0380	76	0.0390	78	77	60	133	2.6	21
TOLUENE	ND	0.0500	0.0390	78	0.0410	82	80	59	139	5.0	21
TRICHLOROETHENE	ND	0.0500	0.0380	76	0.0400	80	78	62	137	5.1	24

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Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-MB
Ext./Prep. Method: EPA3550
Date: 01/05/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/06/93
Time: 15:25
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	2.07	62	2.24	67	65	38	107	7.9	23
1,4-Dichlorobenzene	ND	3.33	1.85	56	2.29	69	62	28	104	21	27
2,4-Dinitrotoluene	ND	3.33	2.02	61	2.10	63	62	28	89	3.9	47
2-Chlorophenol	ND	3.33	2.26	68	2.32	70	69	25	102	2.6	50
4-Chloro-m-cresol	ND	3.33	1.86	56	2.42	73	64	26	103	26	33
4-Nitrophenol	ND	3.33	1.66	50	1.71	51	51	11	114	3.0	50
Acenaphthene	ND	3.33	2.53	76	2.52	76	76	31	137	0.4	19
N-Nitrosodipropylamine	ND	3.33	2.25	68	2.45	74	71	41	126	8.5	38
Pentachlorophenol	ND	3.33	2.15	65	1.61	48	56	17	109	29	47
Phenol	ND	3.33	1.96	59	1.62	49	54	26	90	19	35
Pyrene	ND	3.33	2.13	64	2.30	69	67	35	142	7.7	36

LCS = Laboratory Control Sample
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UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-19A
Ext./Prep. Method: EPA3550
Date: 01/05/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/06/93
Time: 17:42
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	2.43	73	2.31	69	71	38	107	5.1	23
1,4-Dichlorobenzene	ND	3.33	2.75	83	2.95	89	86	28	104	7.0	27
2,4-Dinitrotoluene	ND	3.33	1.70	51	1.59	48	49	28	89	6.7	47
2-Chlorophenol	ND	3.33	2.69	81	2.54	76	79	25	102	5.7	50
4-Chloro-m-cresol	ND	3.33	2.03	61	1.91	57	59	26	103	6.1	33
4-Nitrophenol	ND	3.33	1.29	39	1.25	38	38	11	114	3.1	50
Acenaphthene	0.900	3.33	3.94	91	3.66	83	87	31	137	7.4	19
N-Nitrosodipropylamine	ND	3.33	2.61	78	2.28	68	73	41	126	13	38
Pentachlorophenol	ND	3.33	0.490	15	0.340	10	12*	17	109	36	47
Phenol	ND	3.33	2.03	61	2.11	63	62	26	90	3.9	35
Pyrene	1.07	3.33	3.21	64	3.18	63	64	35	142	0.9	36

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

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UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-04A
Ext./Prep. Method: EPA3550
Date: 01/04/93
Analyst: STF
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB080
Instrument ID: 02933
Date: 01/05/93
Time: 21:40
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	0.0800	0.0400	0.104	60	0.123	108	84	32	120	17	50
ALDRIN	ND	0.0400	0.0360	90	0.0400	100	95	34	132	11	43
DIELDRIN	ND	0.0400	0.0330	83	0.0310	78	80	31	134	6.3	38
ENDRIN	ND	0.0400	0.0420	105	0.0410	103	104	42	139	2.4	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0340	85	0.0380	95	90	46	127	11	50
HEPTACHLOR	ND	0.0400	0.0430	108	0.0470	118	113	35	130	8.9	31

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-MB
Ext./Prep. Method: EPA3550
Date: 01/04/93
Analyst: STF
Std. Source: G921215-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 01/05/93
Time: 19:43
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	ND	0.0400	0.0290	73	0.0250	63	68	32	120	15	50
ALDRIN	ND	0.0400	0.0320	80	0.0280	70	75	34	132	13	43
DIELDRIN	ND	0.0400	0.0300	75	0.0270	68	71	31	134	11	38
ENDRIN	ND	0.0400	0.0330	83	0.0300	75	79	42	139	9.5	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0330	83	0.0280	70	76	46	127	16	50
HEPTACHLOR	ND	0.0400	0.0390	98	0.0350	88	93	35	130	11	31

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-07A
Ext./Prep. Method: EPA3050
Date: 01/05/93
Analyst: JSL
Std. Source: VHG21599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/06/93
Time: 11:
Analyst: RAH
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	3.00	50.0	46.4	87	46.1	86	87	54	123	0.7	25
ARSENIC	9.00	50.0	53.6	89	48.9	80	85	72	115	9.2	25
BARIUM	101	50.0	144	86	149	96	91	46	155	3.4	25
BERYLLIUM	0.200	50.0	48.0	96	47.7	95	95	78	112	0.6	25
CADMIUM	0.400	50.0	47.9	95	46.7	93	94	80	111	2.5	25
CHROMIUM	22.0	50.0	69.2	94	66.4	89	92	60	135	4.1	25
COBALT	9.00	50.0	55.0	92	54.8	92	92	72	114	0.4	25
COPPER	83.0	50.0	131	96	125	84	90	72	127	4.7	25
LEAD	100	50.0	139	78	134	68	73	61	124	3.7	25
MOLYBDENUM	ND	54.0	48.0	89	46.8	87	88	69	119	2.5	25
NICKEL	28.0	50.0	76.3	97	77.2	98	98	54	132	1.2	25
SELENIUM	ND	50.0	47.6	95	44.5	89	92	63	117	6.7	25
SILVER	ND	45.0	48.4	108	47.4	105	106	79	118	2.1	25
THALLIUM	10.0	50.0	56.2	92	51.9	84	88	63	115	8.0	25
VANADIUM	25.0	50.0	74.4	99	71.6	93	96	70	122	3.8	25
ZINC	126	50.0	188	124	177	102	113	64	133	6.0	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-04A
Ext./Prep. Method: EPA3010
Date: 01/06/93
Analyst: JL
Std. Source: VHG2-1599
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/07/93
Time: 2 :
Analyst: RAH
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	5.20	10.0	14.7	95	14.2	90	93	75	125	3.5	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-04A
Ext./Prep. Method: EPA3010
Date: 01/06/93
Analyst: JL
Std. Source: TCLP921201
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/07/93
Time: 3 :
Analyst: RAH
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.70	94	4.70	94	94	75	125	0.0	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-04A
Ext./Prep. Method: EPA7471
Date: 01/06/93
Analyst: JSL
Std. Source: A92122801W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 01/06/93
Time: 3 :
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.250	1.00	1.29	104	1.19	94	99	72	128	8.1	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9212339-01A
Ext./Prep. Method: EPA9010
Date: 01/04/93
Analyst: HYW
Std. Source: MALL 6881KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 01/05/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	8.86	89	8.42	84	86	58	135	5.0	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.04

Clayton Lab Number: 9301004-29B
Ext./Prep. Method: EPA7.3.4.2
Date: 01/07/93
Analyst: HYW
Std. Source: BAKER #611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7.3.4.2
Instrument ID: 00008
Date: 01/07/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	10.0	272	215	75	220	77	76	61	111	2.3	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 29, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine Street, 10th Floor
San Francisco, CA 94111

ADDITIONAL REPORT
Client Ref. 2026.061
Clayton Project No. 93010.36

Dear Ms. Wells:

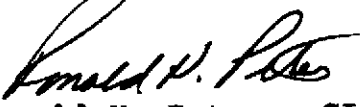
Attached is our additional analytical laboratory report for the samples received on January 6, 1993 and originally reported to you on January 13, 1992.

On January 22, 1993 we analyzed an additional aliquot of sample 11-2. On January 26, 1993 we analyzed an additional 5 aliquots of this sample to further evaluate sample homogeneity. These data and the original result for sample 11-2 (720 mg/kg) indicate variability among sub-samples selected for analysis.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,


Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Matrix/Media: SOIL
Preparation Method: EPA 3050
Analysis Method: EPA 6010

Date Received: 01/06/93
Date Prepared: 01/26/93
Date Analyzed: 01/26/93

Lab Number	Sample Identification	Date Sampled	Lead (mg/kg)	Detection Limit (mg/kg)
02B	11-2	01/04/93	150*	1
02C	11-2	01/04/93	78	1
02D	11-2	01/04/93	110	1
02E	11-2	01/04/93	90	1
02F	11-2	01/04/93	78	1
02G	11-2	01/04/93	99	1
44B	METHOD BLANK	--	<1	1

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results are reported on a wet weight basis, as received

* Sample prepared and analyzed on 01/22/93

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301197-06A
Ext./Prep. Method: EPA3050
Date: 01/26/93
Analyst: JSL
Std. Source: VHG21599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/26/93
Time: 11:
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.00	50.0	49.2	94	49.0	94	94	54	123	0.4	25
ARSENIC	4.00	50.0	52.9	98	51.2	94	96	72	115	3.3	25
BARIUM	85.0	50.0	152	134	138	106	120	46	155	9.7	25
BERYLLIUM	0.200	50.0	49.5	99	49.0	98	98	78	112	1.0	25
CADMIUM	0.500	50.0	50.0	99	49.3	98	98	80	111	1.4	25
CHROMIUM	26.0	50.0	75.8	100	77.3	103	101	60	135	2.0	25
COBALT	9.00	50.0	55.4	93	55.1	92	93	72	114	0.5	25
COPPER	102	50.0	151	98	146	88	93	72	127	3.4	25
LEAD	71.0	50.0	132	122	117	92	107	61	124	12	25
MOLYBDENUM	ND	54.0	48.5	90	48.2	89	90	69	119	0.6	25
NICKEL	36.0	50.0	83.3	95	92.0	112	103	54	132	9.9	25
SELENIUM	ND	50.0	49.4	99	49.2	98	99	63	117	0.4	25
SILVER	ND	45.0	50.1	111	49.6	110	111	79	118	1.0	25
THALLIUM	ND	50.0	35.8	72	35.0	70	71	63	115	2.3	25
VANADIUM	27.0	50.0	78.7	103	76.9	100	102	70	122	2.3	25
ZINC	137	50.0	190	106	173	72	89	64	133	9.4	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

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P.O. Box 9019
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Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 13, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine St. 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06I
Clayton Project No. 93010.36

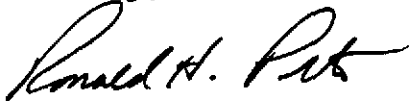
Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on January 6, 1993. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93010.36

Sample Identification:	11-12	Date Sampled:	01/04/93
Lab Number:	9301036-12B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/07/93
Preparation Method:	EPA 5030	Date Analyzed:	01/07/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-12	Date Sampled: 01/04/93
Lab Number: 9301036-12B	Date Received: 01/06/93
Sample Matrix/Media: SOIL	Date Prepared: 01/07/93
Preparation Method: EPA 5030	Date Analyzed: 01/07/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.007	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.008	0.005
o-Xylene	95-47-6	0.005	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	11-12	Date Sampled:	01/04/93
Lab Number:	9301036-12B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/07/93
Preparation Method:	EPA 5030	Date Analyzed:	01/07/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	99	81 - 117
Bromofluorobenzene	460-00-4	96	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-32	Date Sampled: 01/06/93
Lab Number: 9301036-32B	Date Received: 01/06/93
Sample Matrix/Media: SOIL	Date Prepared: 01/07/93
Preparation Method: EPA 5030	Date Analyzed: 01/07/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	11-32	Date Sampled:	01/06/93
Lab Number:	9301036-32B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/07/93
Preparation Method:	EPA 5030	Date Analyzed:	01/07/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-32
Lab Number: 9301036-32B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 01/06/93
Date Received: 01/06/93
Date Prepared: 01/07/93
Date Analyzed: 01/07/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	94	81 - 117
Bromofluorobenzene	460-00-4	93	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301036-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/07/93
Preparation Method:	EPA 5030	Date Analyzed:	01/07/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301036-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 01/07/93
Preparation Method: EPA 5030	Date Analyzed: 01/07/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301036-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/07/93
Preparation Method:	EPA 5030	Date Analyzed:	01/07/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	101	81 - 117
Bromofluorobenzene	460-00-4	101	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-12
Lab Number: 9301036-12B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/04/93
Date Received: 01/06/93
Date Extracted: 01/07/93
Date Analyzed: 01/08/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	11-12	Date Sampled:	01/04/93
Lab Number:	9301036-12B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/07/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	2.1	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	0.6	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	1.5	0.2
Dibenzofuran	132-64-9	0.6	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-12	Date Sampled: 01/04/93
Lab Number: 9301036-12B	Date Received: 01/06/93
Sample Matrix/Media: SOIL	Date Extracted: 01/07/93
Extraction Method: EPA 3550	Date Analyzed: 01/08/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	1.2	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	3.2	0.2
Anthracene	120-12-7	1.0	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	1.8	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	1.4	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.5	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.5	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	11-12	Date Sampled:	01/04/93
Lab Number:	9301036-12B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/07/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.6	0.2
Benzo(k)fluoranthene	207-08-9	0.3	0.2
Benzo(a)pyrene	50-32-8	0.4	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	67	25	121
Phenol-d6	13127-88-3	77	24	113
Nitrobenzene-d5	4165-60-0	55	23	120
2-Fluorobiphenyl	321-60-8	78	30	115
2,4,6-Tribromophenol	118-79-6	68	19	122
Terphenyl-d14	98904-43-9	75	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-32	Date Sampled: 01/06/93
Lab Number: 9301036-32B	Date Received: 01/06/93
Sample Matrix/Media: SOIL	Date Extracted: 01/08/93
Extraction Method: EPA 3550	Date Analyzed: 01/08/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification:	11-32	Date Sampled:	01/06/93
Lab Number:	9301036-32B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/08/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	1.5	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	0.3	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	0.8	0.2
Dibenzofuran	132-64-9	0.4	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-32
Lab Number: 9301036-32B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/06/93
Date Received: 01/06/93
Date Extracted: 01/08/93
Date Analyzed: 01/08/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	0.7	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	2.4	0.2
Anthracene	120-12-7	0.6	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	1.3	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	1.0	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.4	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.4	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93010.36

Sample Identification:	11-32	Date Sampled:	01/06/93
Lab Number:	9301036-32B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/08/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.4	0.2
Benzo(k)fluoranthene	207-08-9	0.2	0.2
Benzo(a)pyrene	50-32-8	0.3	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	67	25 - 121
Phenol-d6	13127-88-3	92	24 - 113
Nitrobenzene-d5	4165-60-0	52	23 - 120
2-Fluorobiphenyl	321-60-8	88	30 - 115
2,4,6-Tribromophenol	118-79-6	21	19 - 122
Terphenyl-d14	98904-43-9	81	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301036-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/07/93
Extraction Method: EPA 3550	Date Analyzed: 01/08/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301036-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/07/93
Extraction Method: EPA 3550	Date Analyzed: 01/08/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	93	25	121
Phenol-d6	13127-88-3	95	24	113
Nitrobenzene-d5	4165-60-0	62	23	120
2-Fluorobiphenyl	321-60-8	96	30	115
2,4,6-Tribromophenol	118-79-6	85	19	122
Terphenyl-d14	98904-43-9	75	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-34
Lab Number: 9301036-34B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: 01/06/93
Date Received: 01/06/93
Date Extracted: 01/07/93
Date Analyzed: 01/08/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	0.031	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	0.040	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	0.19	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
 for
 Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
 Clayton Project No. 93010.36

Sample Identification:	11-34	Date Sampled:	01/06/93
Lab Number:	9301036-34B	Date Received:	01/06/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/07/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	98	24 - 150
Dibutylchloroendate	1770-80-5	99	20 - 150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93010.36

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301036-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/07/93
Extraction Method: EPA 3550	Date Analyzed: 01/08/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93010.36

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301036-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/07/93
Extraction Method:	EPA 3550	Date Analyzed:	01/08/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	91	24 - 150
Dibutylchloroendate	1770-80-5	103	20 - 150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-2
Lab Number: 9301036-02
Sample Matrix/Media: SOIL

Date Sampled: 01/04/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	4	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	100	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	20	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Ignitability	NI	—	Degrees F	—	01/12/93	—	SW 7.1.2
Lead	720	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
pH	8.8	—	S.U.	—	01/07/93	—	EPA 9045
Reactive Cyanide	<0.3	0.3	mg/kg	—	01/11/93	—	EPA 9010
Reactive Sulfide	30	10	mg/kg	—	01/07/93	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	11	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	210	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-12
Lab Number: 9301036-12
Sample Matrix/Media: SOIL

Date Sampled: 01/04/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	83	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	180	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	35	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	5.0	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	180	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-19
Lab Number: 9301036-19
Sample Matrix/Media: SOIL

Date Sampled: 01/05/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	88	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	65	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	7.3	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-27
Lab Number: 9301036-27
Sample Matrix/Media: SOIL

Date Sampled: 01/05/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	80	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	28	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	52	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	73	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	37	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	5.3	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93010.36

Sample Identification: 11-28
Lab Number: 9301036-28
Sample Matrix/Media: SOIL

Date Sampled: 01/05/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	97	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	42	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	40	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	70	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	56	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	2.9	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	4	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	35	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-30
Lab Number: 9301036-30
Sample Matrix/Media: SOIL

Date Sampled: 01/06/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	91	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	27	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	45	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	86	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	35	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	4.7	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-31
Lab Number: 9301036-31
Sample Matrix/Media: SOIL

Date Sampled: 01/06/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	31	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	51	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	100	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	50	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	4.9	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	34	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-32
Lab Number: 9301036-32
Sample Matrix/Media: SOIL

Date Sampled: 01/06/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	7	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	12	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	110	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	32	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	11	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	190	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.2	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	6	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	43	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	6.5	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	14	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	210	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-34
Lab Number: 9301036-34
Sample Matrix/Media: SOIL

Date Sampled: 01/06/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	97	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	54	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	290	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	6.2	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: 11-43
Lab Number: 9301036-43
Sample Matrix/Media: SOIL

Date Sampled: 01/06/93 00:00
Date Received: 01/06/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	110	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	35	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	46	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	80	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	60	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	4.9	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	2	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	37	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93010.36

Sample Identification: METHOD BLANK
Lab Number: 9301036-44
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	01/08/93	01/08/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Reactive Cyanide	<0.3	0.3	mg/kg	--	01/11/93	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	01/07/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	01/06/93	01/11/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/07/93	01/11/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	01/12/93	01/13/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 1/6/93

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Page 1 of 1

Berth 30

Port of Oakland
Project No. 2026.06

9301036

Due: 1/13/92

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
11-2	1/4/93	1345	3228	total CAM 17 metals; WET-Pb; TCLP-Pb; RCI	Homogenize entire tube before analysis
11-12	1/4/93	2310	3228	total CAM 17 metals; WET-Pb; TCLP-Pb; 8240; 8270	Pull volatile sample first then homogenize entire tube for other analyses
11-19	1/5/93	06:45	3229	total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analysis
11-27	1/5/93	2110	3230	total CAM 17 metals; WET-Pb; TCLP-Pb	↓
11-28	1/5/93	2315	3230	total CAM 17 metals; WET-Pb; TCLP-Pb	
11-30	1/6/93	02:35	3230	total CAM 17 metals; WET-Pb; TCLP-Pb	
11-31	1/6/93	0310	3230	total CAM 17 metals; WET-Pb; TCLP-Pb	
11-32	1/6/93	0335	3230	total CAM 17 metals; WET-Pb; TCLP-Pb; 8240; 8270	
11-34	1/6/93	0800	3230	total CAM 17 metals WET-Pb; TCLP-Pb; 8080	Homogenize entire tube before analysis
11-43	1/6/93	1510	3231	total CAM 17 metals WET-Pb; TCLP-Pb	↓
Turnaround time: 4 days				Results to: Elizabeth Wells	

- Requested by EL wells
- Port of Oakland directly
- Use all EPA test methods
- RCI = reactivity, corrosivity, ignitability

Chain-of-Custody Record


No. 322R

Date: 1/4/93

Page 1 of

Project No.: <i>W26.06 I</i>			ANALYSES											REMARKS									
Samplers (Signatures): <i>Tim Kauscher</i> <i>Jeffrey Hagan</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX													Additional comments	
Date	Time	Sample Number																					
<i>1/4/93</i>	<i>13:15</i>	<i>11-1</i>																		X	S	1	<i>Bill Port of Oakland DIRECTLY</i>
	<i>13:45</i>	<i>11-2</i>																		X	S	1	
	<i>14:15</i>	<i>11-3</i>																		X	S	1	
	<i>14:50</i>	<i>11-4</i>																		X	S	1	
	<i>15:25</i>	<i>11-5</i>																		X	S	1	
	<i>17:25</i>	<i>11-6</i>																		X	S	1	
	<i>20:05</i>	<i>11-7</i>																		X	S	1	
	<i>20:40</i>	<i>11-8</i>																		X	S	1	
	<i>21:10</i>	<i>11-9</i>																		X	S	1	
	<i>21:35</i>	<i>11-10</i>																		X	S	1	
	<i>22:45</i>	<i>11-11</i>																		X	S	1	
<i>✓</i>	<i>23:10</i>	<i>11-12</i>																		X	S	1	

Turnaround time: *HOLD* Results to: *Elizabeth Wells* Total No. of containers: *12*

Relinquished by: <i>Tim Kauscher</i> Signature: <i>Tim Kauscher</i> Printed name: <i>TIM KAUSCHER</i> Company: <i>Geometric</i>	Date: <i>1/6/93</i>	Relinquished by: <i>Jim Mitchell</i> Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV.</i>	Date: <i>1/6/93</i>	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: <i>Lab Pickup</i>
Received by: <i>Jim Mitchell</i> Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV.</i>	Time: <i>15:30</i>	Received by: Signature: Printed name: Company:	Time: <i>16:55</i>	Received by: Signature: Printed name: Company:	Time:	Laboratory comments and Log No. <i>93010-1</i>
 Geometric Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400						

Chain-of-Custody Record

No. 3229

Date: 1/5/93

Page 2 of

Project No.: 2026.06I

Samplers (Signatures):
Jeffrey Hasan
Jim Keuscher

ANALYSES

REMARKS

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers
1/5/93	00:35	11-13								X	X	S		1
	01:05	11-14								X	X	S		1
	02:00	11-15								X	X	S		1
	02:30	11-16								X	X	S		1
	03:50	11-17								X	X	S		1
	04:20	11-18								X	X	S		1
	06:45	11-19								X	X	S		1
	07:25	11-20								X	X	S		1
	08:00	11-21								X	X	S		1
	08:25	11-22								X	X	S		1
	08:55	11-23								X	X	S		1
	09:05	11-24								X	X	S		1

Bill Port of Oakland directly.

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by:
 Signature: *Jim Keuscher*
 Printed name: **JIM KEUSCHER**
 Company: **Geomatrix**

Received by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV**

Date: 1/6/93
 Relinquished by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**


Date: 1/6/93
 Received by:
 Signature: *Jim Mitchell*
 Printed name: **JIM MITCHELL**
 Company: **CLAYTON ENV.**

Date: 1/6/93
 Relinquished by:
 Signature:
 Printed name:
 Company:

Date: 1/6/93
 Received by:
 Signature:
 Printed name:
 Company:

Date: Method of shipment: **Pickup**

Laboratory comments and Log No.: **9201046**

 **Geomatrix Consultants**
 100 Pine St 10th Floor
 San Francisco, CA 94111
 (415) 434-9400


Chain-of-Custody Record

No. 3230

Date: 1/5/93

Page 3 of

Project No. 2026.06 I			ANALYSES												REMARKS									
Samplers (Signatures) Jeffrey Hisan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD														Additional comments
Date	Time	Sample Number																						
1/5/93	19:30	11-25								X														Bill Port of Oakland directly.
	20:15	11-26								X														
	21:10	11-27								X														
	23:15	11-28								X														
1/6/93	01:50	11-29								X														
	02:35	11-30								X														
	03:10	11-31								X														
	03:55	11-32								X														
	07:20	11-33								X														
	08:00	11-34								X														
	09:40	11-35								X														
	10:15	11-36								X														

Turnaround time: HOLD		Results to: Elizabeth Wells		Total No. of containers:	
Relinquished by: Signature: <i>Tom Kewsch</i> Printed name: <i>Tom Kewsch</i> Company: <i>Geomatrix</i>	Date: <i>1/6/93</i>	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV.</i>	Date: <i>1/6/93</i>	Relinquished by: Signature: Printed name: Company:	Date:
Received by: Signature: <i>Jim Mitchell</i> Printed name: <i>JIM MITCHELL</i> Company: <i>CLAYTON ENV.</i>	Time: <i>5:30</i>	Received by: Signature: Printed name: Company:	Time: <i>1655</i>	Received by: Signature: Printed name: Company:	Time:
Method of shipment: <i>Pickup</i>				Laboratory comments and Log No.:	
				<i>9201036</i>	
 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400					

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 93010.36

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-12A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EP88240
Instrument ID: 02831
Date: 01/07/93
Time: 12:19
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0540	108	0.0530	106	107	59	172	1.9	22
BENZENE	ND	0.0500	0.0520	104	0.0510	102	103	66	142	1.9	21
CHLOROBENZENE	ND	0.0500	0.0490	98	0.0460	92	95	60	133	6.3	21
TOLUENE	ND	0.0500	0.0510	102	0.0500	100	101	59	139	2.0	21
TRICHLOROETHENE	ND	0.0500	0.0510	102	0.0500	100	101	62	137	2.0	24

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-MB
Ext./Prep. Method: EPA3550
Date: 01/07/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/08/93
Time: 16:42
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	2.18	65	2.09	63	64	38	107	4.2	23
1,4-Dichlorobenzene	ND	3.33	2.12	64	2.07	62	63	28	104	2.4	27
2,4-Dinitrotoluene	ND	3.33	1.74	52	1.80	54	53	28	89	3.4	47
2-Chlorophenol	ND	3.33	2.15	65	2.19	66	65	25	102	1.8	50
4-Chloro-m-cresol	ND	3.33	1.95	59	1.91	57	58	26	103	2.1	33
4-Nitrophenol	ND	3.33	1.45	44	1.50	45	44	11	114	3.4	50
Acenaphthene	ND	3.33	2.69	81	2.79	84	82	31	137	3.6	19
N-Nitrosodipropylamine	ND	3.33	2.19	66	2.13	64	65	41	126	2.8	38
Pentachlorophenol	ND	3.33	1.69	51	1.73	52	51	17	109	2.3	47
Phenol	ND	3.33	1.66	50	1.65	50	50	26	90	0.6	35
Pyrene	ND	3.33	2.52	76	2.38	71	74	35	142	5.7	36

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Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-12A
Ext./Prep. Method: EPA3550
Date: 01/07/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/08/93
Time: 23:30
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.71	51	2.04	61	56	38	107	18	23
1,4-Dichlorobenzene	ND	3.33	1.87	56	2.06	62	59	28	104	9.7	27
2,4-Dinitrotoluene	ND	3.33	0.670	20	0.880	26	23*	28	89	27	47
2-Chlorophenol	ND	3.33	1.76	53	2.10	63	58	25	102	18	50
4-Chloro-m-cresol	ND	3.33	1.57	47	2.05	62	54	26	103	27	33
4-Nitrophenol	ND	3.33	0.440	13	0.760	23	18	11	114	53*	50
Acenaphthene	1.00	3.33	3.20	66	4.95	119	92	31	137	43*	19
N-Nitrosodipropylamine	ND	3.33	1.23	37	1.73	52	44	41	126	34	38
Pentachlorophenol	ND	3.33	0.630	19	0.600	18	18	17	109	4.9	47
Phenol	ND	3.33	1.39	42	1.69	51	46	26	90	19	35
Pyrene	1.40	3.33	3.41	60	5.69	129	95	35	142	50*	36

Note: 2,4-dinitrotoluene, 4-Nitrophenol, Acenaphthene and Pyrene MS/MSD out of control limits due to matrix interference.

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SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301043-MB
Ext./Prep. Method: EPA3550
Date: 01/07/93
Analyst: STF
Std. Source: 6930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 01/08/93
Time: 18:56
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	ND	0.0400	0.0390	98	0.0370	93	95	32	120	5.3	50
ALDRIN	ND	0.0400	0.0330	83	0.0310	78	80	34	132	6.3	43
DIELDRIN	ND	0.0400	0.0360	90	0.0350	88	89	31	134	2.8	38
ENDRIN	ND	0.0400	0.0340	85	0.0330	83	84	42	139	3.0	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0430	108	0.0410	103	105	46	127	4.8	50
HEPTACHLOR	ND	0.0400	0.0360	90	0.0350	88	89	35	130	2.8	31

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-34B
Ext./Prep. Method: EPA3550
Date: 01/07/93
Analyst: STF
Std. Source: G930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 01/09/93
Time: 05:28
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	0.190	0.0400	0.270	200	0.190	0	100	32	120	35	50
ALDRIN	ND	0.0400	0.0560	140	0.0430	108	124	34	132	26	43
DIELDRIN	ND	0.0400	0.0300	75	0.0270	68	71	31	134	11	38
ENDRIN	ND	0.0400	0.0360	90	0.0330	83	86	42	139	8.7	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0450	113	0.0370	93	103	46	127	20	50
HEPTACHLOR	ND	0.0400	0.0360	90	0.0340	85	88	35	130	5.7	31

Note: 4,4-DDT matrix spike duplicate recovery low due to sample inhomogeneous nature.

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SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-19A
Ext./Prep. Method: EPA3050
Date: 01/12/93
Analyst: JL
Std. Source: VHG2-1599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/13/93
Time: 1:
Analyst: RAH
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	1.88	50.0	45.1	86	45.0	86	86	54	123	0.2	25
ARSENIC	5.16	50.0	50.8	91	49.0	88	89	72	115	3.6	25
BARIUM	87.7	50.0	138	101	143	111	106	46	155	3.6	25
BERYLLIUM	0.230	50.0	46.9	93	46.6	93	93	78	112	0.6	25
CADMIUM	0.310	50.0	47.1	94	47.3	94	94	80	111	0.4	25
CHROMIUM	23.5	50.0	72.9	99	71.4	96	97	60	135	2.1	25
COBALT	7.20	50.0	53.1	92	52.7	91	91	72	114	0.8	25
COPPER	64.9	50.0	122	114	119	108	111	72	127	2.5	25
LEAD	106	50.0	166	120	163	114	117	61	124	1.8	25
MOLYBDENUM	ND	50.0	46.7	93	47.1	94	94	69	119	0.9	25
NICKEL	28.5	50.0	78.5	100	76.7	96	98	54	132	2.3	25
SELENIUM	ND	50.0	46.5	93	47.6	95	94	63	117	2.3	25
SILVER	ND	50.0	47.2	94	47.8	96	95	79	118	1.3	25
THALLIUM	ND	50.0	50.5	101	48.2	96	99	63	115	4.7	25
VANADIUM	25.8	50.0	76.1	101	75.2	99	100	70	122	1.2	25
ZINC	147	50.0	202	110	203	112	111	64	133	0.5	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

SOR = Spike out of range due to high sample concentration.

UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-02A
Ext./Prep. Method: EPA3010
Date: 01/11/93
Analyst: RAH
Std. Source: TCLP120192
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/11/93
Time: 3 :
Analyst: RAH
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.99	100	5.05	101	100	75	125	1.2	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301044-01A
Ext./Prep. Method: EPA9010
Date: 01/11/93
Analyst: HYW
Std. Source: MALL #6881KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 03891
Date: 01/11/93
Time: 2 :
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	10.7	10.0	20.3	96	20.1	94	95	75	125	1.0	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301044-01A
Ext./Prep. Method: EPA9010
Date: 01/11/93
Analyst: HYW
Std. Source: MALL #6881KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 03891
Date: 01/11/93
Time: 2 :
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	10.7	10.0	20.3	96	20.1	94	95	75	125	1.0	20

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301044-01A
Ext./Prep. Method: EPA9010
Date: 01/11/93
Analyst: HYW
Std. Source: MALL #68B1KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 01/11/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	9.31	93	9.44	94	94	58	135	1.4	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301036-02A
Ext./Prep. Method: EPA7471
Date: 01/08/93
Analyst: HYW
Std. Source: A92122801W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 01/08/93
Time: 3 :
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	0.380	1.00	1.10	72	1.13	75	74	72	128	2.7	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301044-01A
Ext./Prep. Method: EPA9010
Date: 01/11/93
Analyst: HYW
Std. Source: MALL #68B1KAAT
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 01/11/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	9.31	93	9.44	94	94	58	135	1.4	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 93010.36

Clayton Lab Number: 9301004-29B
Ext./Prep. Method: EPA7.3.4.2
Date: 01/07/93
Analyst: HYW
Std. Source: BAKER #611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7.3.4.2
Instrument ID: 00008
Date: 01/07/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	10.0	272	215	75	220	77	76	61	111	2.3	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

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Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE
CLAYTON PROJECT NUMBER 93011.74

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-MB
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB270
Instrument ID: 05138
Date: 01/25/93
Time: 18:12
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.85	56	1.87	56	56	38	107	1.1	23
1,4-Dichlorobenzene	ND	3.33	1.84	55	1.87	56	56	28	104	1.6	27
2,4-Dinitrotoluene	ND	3.33	2.00	60	2.06	62	61	28	89	3.0	47
2-Chlorophenol	ND	3.33	3.30	99	3.27	98	99	25	102	0.9	50
4-Chloro-m-cresol	ND	3.33	2.67	80	2.71	81	81	26	103	1.5	33
4-Nitrophenol	ND	3.33	2.52	76	2.71	81	79	11	114	7.3	50
Acenaphthene	ND	3.33	2.66	80	2.72	82	81	31	137	2.2	19
N-Nitrosodipropylamine	ND	3.33	2.15	65	2.19	66	65	41	126	1.8	38
Pentachlorophenol	ND	3.33	2.17	65	2.19	66	65	17	109	0.9	47
Phenol	ND	3.33	2.68	80	2.76	83	82	26	90	2.9	35
Pyrene	ND	3.33	3.25	98	3.00	90	94	35	142	8.0	36

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301197-24A
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/26/93
Time: 02:46
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.90	57	2.00	60	59	38	107	5.1	23
1,4-Dichlorobenzene	ND	3.33	1.72	52	1.87	56	54	28	104	8.4	27
2,4-Dinitrotoluene	ND	3.33	0.930	28	0.770	23	26*	28	89	19	47
2-Chlorophenol	ND	3.33	3.00	90	3.35	101	95	25	102	11	50
4-Chloro-m-cresol	ND	3.33	2.82	85	2.90	87	86	26	103	2.8	33
4-Nitrophenol	ND	3.33	0.980	29	1.12	34	32	11	114	13	50
Acenaphthene	4.00	3.33	12.8	264	6.89	87	176*	31	137	60*	19
N-Nitrosodipropylamine	ND	3.33	2.04	61	2.19	66	64	41	126	7.1	38
Pentachlorophenol	ND	3.33	1.24	37	1.34	40	39	17	109	7.8	47
Phenol	ND	3.33	2.53	76	2.78	83	80	26	90	9.4	35
Pyrene	2.75	3.33	15.0	368	6.90	125	246*	35	142	74*	36

Note: 2,4-Dinitrotoluene, Acenaphthene and Pyrene MS/MDS recoveries out of control limits due to matrix interference

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-08A
Ext./Prep. Method: EPA 5030
Date: 01/22/93
Analyst: PF
Std. Source: V921223-D1W
Sample Matrix/Media: SOIL

Analytical Method: EPAB015 B020
Instrument ID: 05587
Date: 01/22/93
Time: 14:36
Analyst: PF
Units: NG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike Duplicate Result	MSD	Average	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result	Recovery (%)		Recovery (%)	Recovery (% R)				
BENZENE	(PID) ND	0.0100	0.0152	152	0.0120	120	136	53	140	24	28	
GASOLINE	(FID) 1.44	0.500	1.45	2	1.09	-70	-34*	41	164	28	37	
TOLUENE	(PID) 0.00700	0.0400	0.0465	99	0.0372	76	87	60	139	22	22	

Note: Gasoline MS/MSD out of control limit due to possible sample matrix homogenous problem

LCS = Laboratory Control Sample
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LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-13A
Ext./Prep. Method: EPA 5030
Date: 01/26/93
Analyst: PF
Std. Source: V921223-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8015 B020
Instrument ID: 05587
Date: 01/26/93
Time: 14:19
Analyst: PF
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
BENZENE	(PID) ND	0.0100	0.0100	100	0.0110	110	105	53	140	9.5	28
GASOLINE	(FID) ND	0.500	0.453	91	0.483	97	94	41	164	6.4	37
TOLUENE	(PID) ND	0.0400	0.0370	93	0.0400	100	96	60	139	7.8	22

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

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SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-10A
Ext./Prep. Method: EPA5030
Date: 01/22/93
Analyst: PF
Std. Source: V930118-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB010 8020
Instrument ID: 02904
Date: 01/26/93
Time: 13:12
Analyst: CB
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)	Duplicate Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
1,1-DICHLOROETHENE	(HALL) ND	1.00	0.828	83	0.599	60	71	41	149	32*	30	
CHLOROBENZENE	(HALL) ND	1.00	1.00	100	0.885	89	94	66	151	12	30	
TRICHLOROETHENE	(HALL) ND	1.00	1.17	117	0.930	93	105	38	161	23	30	

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-14A
Ext./Prep. Method: EPA5030
Date: 01/27/93
Analyst: CB
Std. Source: V930118-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8010 8020
Instrument ID: 02911
Date: 01/27/93
Time: 22:36
Analyst: CB
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike		MS	Matrix Spike		MSD	Average	LCL	UCL	RPD	UCL
			Result	Result	Recovery (%)	Duplicate	Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
1,1-DICHLOROETHENE	(HALL) ND	2.00	1.44		72	1.64		82	77	41	149	13	30
CHLOROBENZENE	(HALL) ND	2.00	1.60		80	1.77		89	84	66	151	10	30
TRICHLOROETHENE	(HALL) ND	2.00	1.71		86	1.78		89	87	38	161	4.0	30

LCS = Laboratory Control Sample

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LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: EPA3550
Date: 01/25/93
Analyst: G/S
Std. Source: 6930104-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8015
Instrument ID: 02883
Date: 01/27/93
Time: 11:40
Analyst: AM
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
DIESEL	ND	13.5	7.50	56	9.10	67	61	51	147	19	30

LCS = Laboratory Control Sample
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LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: SM5520E
Date: 01/21/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520E
Instrument ID: AE200
Date: 01/26/93
Time: 15:00
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
OIL AND GREASE	70.0	1,040	1,010	91	1,050	94	92	75	125	3.9	25

LCS = Laboratory Control Sample
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LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-14A
Ext./Prep. Method: EPA5030
Date: 01/27/93
Analyst: CB
Std. Source: V930118-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8010 8020
Instrument ID: 02911
Date: 01/27/93
Time: 22:36
Analyst: CB
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike		MS	Matrix Spike		MSD	Average	LCL	UCL	RPD	UCL
			Result	Result	Recovery (%)	Duplicate Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)	
1,1-DICHLOROETHENE	(HALL) ND	2.00	1.44	72	1.64	82	77	41	149	13	30		
CHLOROBENZENE	(HALL) ND	2.00	1.60	80	1.77	89	84	66	151	10	30		
TRICHLOROETHENE	(HALL) ND	2.00	1.71	86	1.78	89	87	38	161	4.0	30		

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: EPA3550
Date: 01/25/93
Analyst: G/S
Std. Source: 6930104-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8015
Instrument ID: 02883
Date: 01/27/93
Time: 11:40
Analyst: AM
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)	Duplicate Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
DIESEL	ND	13.5	7.50		56	9.10	67	61	51	147	19	30

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: SM5520E
Date: 01/21/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520E
Instrument ID: AE200
Date: 01/26/93
Time: 15:00
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
OIL AND GREASE	70.0	1,040	1,010	91	1,050	94	92	75	125	3.9	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: SM5520EF
Date: 01/21/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520EF
Instrument ID: AE200
Date: 01/26/93
Time: 16:00
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
TOTAL PETROLEUM HYDROCARBONS	30.0	1,040	810	75	840	78	77	73	103	3.6	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
 For
 Clayton Project No. 93011.74

Clayton Lab Number: 9301174-13A
 Ext./Prep. Method: SM5520E
 Date: 01/22/93
 Analyst: CS
 Std. Source: E920917-01W
 Sample Matrix/Media: SOIL

Analytical Method: SM5520E
 Instrument ID: AE200
 Date: 01/26/93
 Time: 15:30
 Analyst: CS
 Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
DIL AND GREASE	100	1,040	1,120	98	1,100	96	97	75	125	1.8	25

LCS = Laboratory Control Sample
 ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
 SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: EPA3550
Date: 01/25/93
Analyst: G/S
Std. Source: 6930104-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8015
Instrument ID: 02883
Date: 01/27/93
Time: 11:40
Analyst: AM
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)	Duplicate Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
DIESEL	ND	13.5	7.50		56	9.10	67	61	51	147	19	30

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: SM5520E
Date: 01/21/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520E
Instrument ID: AE200
Date: 01/26/93
Time: 15:00
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
OIL AND GREASE	70.0	1,040	1,010	91	1,050	94	92	75	125	3.9	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-01A
Ext./Prep. Method: SM5520EF
Date: 01/21/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520EF
Instrument ID: AE200
Date: 01/26/93
Time: 16:00
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
TOTAL PETROLEUM HYDROCARBONS	30.0	1,040	810	75	840	78	77	73	103	3.6	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
 For
 Clayton Project No. 93011.74

Clayton Lab Number: 9301174-13A
 Ext./Prep. Method: SM5520E
 Date: 01/22/93
 Analyst: CS
 Std. Source: E920917-01W
 Sample Matrix/Media: SOIL

Analytical Method: SM5520E
 Instrument ID: AE200
 Date: 01/26/93
 Time: 15:30
 Analyst: CS
 Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
DIL AND GREASE	100	1,040	1,120	98	1,100	96	97	75	125	1.8	25

LCS = Laboratory Control Sample
 ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
 SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-13A
Ext./Prep. Method: SM5520EF
Date: 01/22/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520EF
Instrument ID: AE200
Date: 01/26/93
Time: 16:30
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
TOTAL PETROLEUM HYDROCARBONS	45.0	1,040	870	79	845	77	78	73	103	2.9	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.74

Clayton Lab Number: 9301174-13A
Ext./Prep. Method: SM5520EF
Date: 01/22/93
Analyst: CS
Std. Source: E920917-01W
Sample Matrix/Media: SOIL

Analytical Method: SM5520EF
Instrument ID: AE200
Date: 01/26/93
Time: 16:30
Analyst: CS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
TOTAL PETROLEUM HYDROCARBONS	45.0	1,040	870	79	845	77	78	73	103	2.9	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 28, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine Street, 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06
Clayton Project No. 93011.97

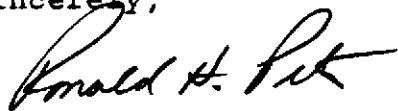
Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on January 22, 1993. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patrica Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	14-6	Date Sampled:	01/18/93
Lab Number:	9301197-06B	Date Received:	01/22/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/22/93
Preparation Method:	EPA 5030	Date Analyzed:	01/22/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-6	Date Sampled: 01/18/93
Lab Number: 9301197-06B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Prepared: 01/22/93
Preparation Method: EPA 5030	Date Analyzed: 01/22/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	0.007	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.017	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.024	0.005
o-Xylene	95-47-6	0.011	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-6	Date Sampled: 01/18/93
Lab Number: 9301197-06B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Prepared: 01/22/93
Preparation Method: EPA 5030	Date Analyzed: 01/22/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	99	81 - 117
Bromofluorobenzene	460-00-4	91	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24	Date Sampled: 01/20/93
Lab Number: 9301197-24B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Prepared: 01/22/93
Preparation Method: EPA 5030	Date Analyzed: 01/22/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	14-24	Date Sampled:	01/20/93
Lab Number:	9301197-24B	Date Received:	01/22/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/22/93
Preparation Method:	EPA 5030	Date Analyzed:	01/22/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	0.012	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.032	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.042	0.005
o-Xylene	95-47-6	0.023	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24
Lab Number: 9301197-24B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 01/20/93
Date Received: 01/22/93
Date Prepared: 01/22/93
Date Analyzed: 01/22/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	105	70 - 121
Toluene-d8	2037-26-5	101	81 - 117
Bromofluorobenzene	460-00-4	92	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301197-43A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/22/93
Preparation Method:	EPA 5030	Date Analyzed:	01/22/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 01/22/93
Preparation Method: EPA 5030	Date Analyzed: 01/22/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
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Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301197-43A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/22/93
Preparation Method:	EPA 5030	Date Analyzed:	01/22/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	100	81 - 117
Bromofluorobenzene	460-00-4	97	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-6	Date Sampled: 01/18/93
Lab Number: 9301197-06B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	14-6	Date Sampled:	01/18/93
Lab Number:	9301197-06B	Date Received:	01/22/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/23/93
Extraction Method:	EPA 3550	Date Analyzed:	01/25/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	3.6	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	1.0	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	1.2	0.2
Dibenzofuran	132-64-9	0.8	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-6	Date Sampled: 01/18/93
Lab Number: 9301197-06B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	1.0	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	2.8	0.2
Anthracene	120-12-7	0.6	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	1.2	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	1.2	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.3	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysène	218-01-9	0.3	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	14-6	Date Sampled:	01/18/93
Lab Number:	9301197-06B	Date Received:	01/22/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/23/93
Extraction Method:	EPA 3550	Date Analyzed:	01/25/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.3	0.2
Benzo(k)fluoranthene	207-08-9	0.4	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	72	25	121
Phenol-d6	13127-88-3	75	24	113
Nitrobenzene-d5	4165-60-0	85	23	120
2-Fluorobiphenyl	321-60-8	90	30	115
2,4,6-Tribromophenol	118-79-6	39	19	122
Terphenyl-d14	98904-43-9	116	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24	Date Sampled: 01/20/93
Lab Number: 9301197-24B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	14-24	Date Sampled:	01/20/93
Lab Number:	9301197-24B	Date Received:	01/22/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/23/93
Extraction Method:	EPA 3550	Date Analyzed:	01/25/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	9.8	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	3.2	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	4.0	0.2
Dibenzofuran	132-64-9	2.9	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24
Lab Number: 9301197-24B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/20/93
Date Received: 01/22/93
Date Extracted: 01/23/93
Date Analyzed: 01/25/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	3.4	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	10	0.2
Anthracene	120-12-7	2.3	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	2.8	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	2.8	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	0.5	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	0.5	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24	Date Sampled: 01/20/93
Lab Number: 9301197-24B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	0.3	0.2
Benzo(k)fluoranthene	207-08-9	0.3	0.2
Benzo(a)pyrene	50-32-8	0.3	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	73	25	121
Phenol-d6	13127-88-3	73	24	113
Nitrobenzene-d5	4165-60-0	84	23	120
2-Fluorobiphenyl	321-60-8	93	30	115
2,4,6-Tribromophenol	118-79-6	76	19	122
Terphenyl-d14	98904-43-9	127	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2

<u>Surrogates</u>	Recovery (%)	QC Limits (%)	
		LCL	UCL
2-Fluorophenol	367-12-4	83	25 - 121
Phenol-d6	13127-88-3	83	24 - 113
Nitrobenzene-d5	4165-60-0	92	23 - 120
2-Fluorobiphenyl	321-60-8	95	30 - 115
2,4,6-Tribromophenol	118-79-6	84	19 - 122
Terphenyl-d14	98904-43-9	113	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-20
Lab Number: 9301197-20B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: 01/19/93
Date Received: 01/22/93
Date Extracted: 01/23/93
Date Analyzed: 01/25/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	0.020	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	0.026	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	0.072	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-20	Date Sampled: 01/19/93
Lab Number: 9301197-20B	Date Received: 01/22/93
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	90	24	150
Dibutylchlorodate	1770-80-5	81	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301197-43A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/23/93
Extraction Method: EPA 3550	Date Analyzed: 01/25/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2
<u>Polychlorinated Biphenyls (PCB's)</u>			
Aroclor 1016	12674-11-2	ND	0.03

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301197-43A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/23/93
Extraction Method:	EPA 3550	Date Analyzed:	01/25/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	88	24	150
Dibutylchloroendate	1770-80-5	87	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-6
Lab Number: 9301197-06
Sample Matrix/Media: SOIL

Date Sampled: 01/18/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	85	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	100	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	71	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	36	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	7.4	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-19
Lab Number: 9301197-19
Sample Matrix/Media: SOIL

Date Sampled: 01/19/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	3	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	180	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	33	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	61	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Ignitability	NI	—	Degrees F	—	01/28/93	—	SW 7.1.2
Lead	70	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	37	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
pH	10.6	—	S.U.	—	01/26/93	—	EPA 9045
Reactive Cyanide	<1	1	mg/kg	—	01/26/93	—	EPA 9010
Reactive Sulfide	<10	10	mg/kg	—	01/28/93	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	2.6	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-20
Lab Number: 9301197-20
Sample Matrix/Media: SOIL

Date Sampled: 01/19/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	94	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	35	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	43	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	59	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	34	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	3.9	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	98	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-21
Lab Number: 9301197-21
Sample Matrix/Media: SOIL

Date Sampled: 01/19/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	140	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.4	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	44	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	59	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.9	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	45	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	2.7	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	27	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-24
Lab Number: 9301197-24
Sample Matrix/Media: SOIL

Date Sampled: 01/20/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	69	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	19	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	110	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	57	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	2.5	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	0.3	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	23	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-28
Lab Number: 9301197-28
Sample Matrix/Media: SOIL

Date Sampled: 01/21/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	75	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	130	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	67	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	4.7	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-30
Lab Number: 9301197-30
Sample Matrix/Media: SOIL

Date Sampled: 01/21/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	75	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	74	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	72	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.3	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	34	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	4.6	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	0.4	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-37
Lab Number: 9301197-37
Sample Matrix/Media: SOIL

Date Sampled: 01/22/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	51	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	78	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	76	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.6	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	6.6	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	20	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-39
Lab Number: 9301197-39
Sample Matrix/Media: SOIL

Date Sampled: 01/22/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	68	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	20	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	94	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	67	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	9.4	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	0.3	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	22	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: 14-40
Lab Number: 9301197-40
Sample Matrix/Media: SOIL

Date Sampled: 01/22/93
Date Received: 01/22/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	62	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	22	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	81	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	57	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	1.7	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	4.1	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06
Clayton Project No. 93011.97

Sample Identification: METHOD BLANK
Lab Number: 9301197-43
Sample Matrix/Media: SOIL

Date Sampled: —
Date Received: —

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	01/25/93	01/26/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Reactive Cyanide	<1	1	mg/kg	—	01/26/93	—	EPA 9010
Reactive Sulfide	<10	10	mg/kg	—	01/28/93	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	01/22/93	01/25/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/23/93	01/25/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	01/26/93	01/26/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable



**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Date 1/22/93

Page 1 of 1

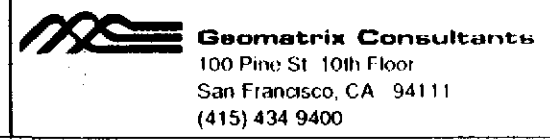
Berth 30
Port of Oakland
Project No. 2026.06


9301197

Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
14-6	1/18/93	19:30	2700	total CAM 17 metals; WET-Pb; TCLP-Pb; 8240; 8270	Pull volatile sample first then no moisture bubble tube before other analyses
14-19	1/19/93	18:50	3240	total CAM 17 metals; WET-Pb; TCLP-Pb; PCI	homogenize entire tube before analyses.
14-20	1/19/93	20:15	3240	total CAM 17 metals; WET-Pb; TCLP-Pb; 8080	↓
14-21	1/19/93	21:45	3240	total CAM 17 metals; WET-Pb; TCLP-Pb	
14-24	1/20/93	01:00	3240	total CAM 17 metals; WET-Pb; TCLP-Pb; 8240; 8270	
14-28	1/21/93 1/21/93	09:15	2691	total CAM 17 metals; WET-Pb; TCLP-Pb	Homogenize entire tube before analyses
14-30	1/21/93	11:15	2691	total CAM 17 metals; WET-Pb; TCLP-Pb	↓
14-37	1/22/93	00:30	2627	total CAM 17 metals; WET-Pb; TCLP-Pb	
14-39	1/22/93	02:35	2627	total CAM 17 metals; WET-Pb; TCLP-Pb;	
14-40	1/22/93	03:20	2627	total CAM 17 metals; WET-Pb; TCLP-Pb	
Turnaround time: <u>4 days</u>				Results to: <u>Elizabeth Wells</u>	

- Requested by EWells
- Please use all EPA test methods
- PCI = reactivity consistency, ignitability
- Mail Port of Oakland directly

Chain-of-Custody Record			No 2700										Date: 1/18/93 - 1/19/93			Page 1 of 4				
Project No: 2026.06F			ANALYSES										REMARKS							
Samplers (Signatures): <i>Paul Scano</i> <i>Jeffrey Hagan</i> <i>Mitakei</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	field									Additional comments	
Date	Time	Sample Number																		
1/18/93	13:10	14-1							X						X	S				Bill Point of Oakland directly
1/18/93	13:43	14-2							X					X	S					
1/18/93	14:40	14-3							X					X	S					
1/18/93	15:15	14-4							X					X	S					
1/18/93	16:05	14-5							X					X	S					
	17:30	14-6							X					X	S					
	21:00	14-7							X					X	S					
	21:45	14-8							X					X	S					
	22:35	14-9							X					X	S					
	23:25	14-10							X					X	S					
1/19/93	01:50	14-11							X					X	S					
	02:30	14-12							X					X	S					
			Turnaround time: HOLD					Results to: Elizabeth Wells					Total No. of containers: 12							
Relinquished by: <i>Mitakei</i>		Date: 1/20/93	Relinquished by: <i>Jim Mitchell</i>		Date: 1/22/93	Relinquished by:		Date:	Method of shipment: Pickup at site											
Signature: MIKE KEIM			Signature: <i>Jim Mitchell</i>			Signature:		Laboratory comments and Log No. 9301197 <i>ck</i>												
Printed name: GEOMATRIX			Printed name: JIM MITCHELL			Printed name:														
Company: CEC			Company: CEC			Company:														
Received by: <i>Jim Mitchell</i>		Time: 1435	Received by: <i>Tracy B. Buller</i>		Time: 1525	Received by:														
Signature: <i>Jim Mitchell</i>			Signature: <i>Tracy B. Buller</i>			Signature:														
Printed name: JIM MITCHELL			Printed name: TRACY BULLER			Printed name:														
Company: CEC			Company: CEC			Company:														




Chain-of-Custody Record			No 3240											Date: 01/19/93 - 01/20/93			Page 2 of 4						
Project No.: 2026.06 I			ANALYSES											REMARKS									
Samplers (Signatures): <i>Jeffrey Hagan</i> <i>Mike Keim</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD													Additional comments
Date	Time	Sample Number																					Bill Port of Oakland directly
01/19/93	03:30	14-13							X										X	S		1	
	04:15	14-14							X										X	S		1	
	08:25	14-15							X										X	S		1	
	10:30	14-16							X										X	S		1	
	11:30	14-17							X										X	S		1	
	12:50	14-18							X										X	S		1	
	18:50	14-19							X										X	S		1	
	20:15	14-20							X										X	S		1	
	21:45	14-21							X										X	S		1	
	22:25	14-22							X										X	S		1	
✓	23:20	14-23							X										X	S		1	
01/20/93	01:00	14-24							X										X	S		1	
Turnaround time: HOLD			Results to: Elizabeth Wells						Total No. of containers: 12														
Relinquished by: <i>Mike Keim</i>			Date: 1/23/93			Relinquished by: <i>Jim Mitchell</i>			Date: 1/22/93			Relinquished by:			Date:			Method of shipment: lab pickup at site					
Signature: MIKE KEIM						Signature:												Laboratory comments and Log No. OK					
Printed name: GEOMETRIX						Printed name: JIM MITCHELL												9301197					
Company: CEC						Company: CEC																	
Received by:			Time: 11:35			Received by: <i>Tracy B. Pullen</i>			Time: 15:25			Received by:			Time:								
Signature: <i>Jim Mitchell</i>						Signature:																	
Printed name: JIM MITCHELL						Printed name: Tracy B. Pullen																	
Company: CEC						Company: Clayton												 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434 9400					

Chain-of-Custody Record NO 2691 Date: 01/20/93 - 01/21/93 Page 3 of 4

Project No.: 2026.06 I			ANALYSES										REMARKS							
Samplers (Signatures): <i>Affey Hasan</i> <i>Mike Keim</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD									Additional comments:	
Date	Time	Sample Number																		
01/20/93	02:00	14-25								X								X	S	1
↓	03:00	14-26								X								X	S	1
01/21/93	08:05	14-27								X								X	S	1
	09:15	14-28								X								X	S	1
	10:10	14-29								X								X	S	1
	11:15	14-30								X								X	S	1
	13:00	14-31								X								X	S	1
	13:55	14-32								X								X	S	1
	14:50	14-33								X								X	S	1
	15:30	14-34								X								X	S	1
	21:55	14-35								X								X	S	1
✓	22:25	14-36								X								X	S	1


Bill Port of Oakland directly.

Turnaround time: HOLD		Results to: Elizabeth Wells		Total No. of containers: 12	
Relinquished by: <i>Mike Keim</i>	Date: 1/21/93	Relinquished by: <i>Jim Mitchell</i>	Date: 1/21/93	Relinquished by:	Date:
Signature: MIKE KEIM		Signature: <i>Jim Mitchell</i>		Signature:	
Printed name: GEOMATRIX		Printed name: JIM MITCHELL		Printed name:	
Company: CEC		Company: CEC		Company:	
Received by:	Time:	Received by: <i>Tatey B. Butcher</i>	Time: 1525	Received by:	Time:
Signature: <i>Jim Mitchell</i>		Signature: <i>Tatey B. Butcher</i>		Signature:	
Printed name: JIM MITCHELL		Printed name: TATEY BUTCHER		Printed name:	
Company: CEC		Company: Clayton		Company:	
				Method of shipment: Pickup at site	
				Laboratory comments and Log No.: 9301197 06	
 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434-9400					

Chain-of-Custody Record NO 2627 Date: 01/22/93 Page 4 of 4

Project No.: 2026.06I			ANALYSES										REMARKS										
Samplers (Signatures): <i>Jeffrey Hazan</i> <i>Mitchell</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	HOLD													Additional comments
Date	Time	Sample Number																					
01/22/93	00:30	14-37								X								X	S			Bill Port of Oakland directly.	
	01:20	14-38								X								X	S				
	02:35	14-39								X								X	S				
	03:20	14-40								X								X	S				
1/22/93	1020	14-41								X								X	S				
	1115	14-42								X								X	S				

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **4**

Relinquished by: <i>Mitchell</i> Signature: MIKE KEDY Printed name: GEOMETRIX Company:	Date: 1/22/93	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: REC	Date: 1/22/93	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: Pick up at site Laboratory comments and Log No.: 9301197
Received by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: REC	Time: 1435	Received by: Signature: <i>Lucy Bull</i> Printed name: Lucy B. Bullock Company: CLAYTON	Time: 1525	Received by: Signature: Printed name: Company:	Time:	 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434 9400

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE
CLAYTON PROJECT NO. 93011.97

Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301161-10A
Ext./Prep. Method:
Date: / / '93
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02831
Date: 01/23/93
Time: 09:26
Analyst: ML
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	0.0720	0.250	0.290	87	0.290	87	87	59	172	0.0	22
BENZENE	ND	0.250	0.210	84	0.225	90	87	66	142	6.9	21
CHLOROBENZENE	ND	0.250	0.180	72	0.200	80	76	60	133	11	21
TOLUENE	ND	0.250	0.190	76	0.210	84	80	59	139	10	21
TRICHLOROETHENE	ND	0.250	0.200	80	0.215	86	83	62	137	7.2	24

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

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UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301174-MB
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/25/93
Time: 18:12
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.85	56	1.87	56	56	38	107	1.1	23
1,4-Dichlorobenzene	ND	3.33	1.84	55	1.87	56	56	28	104	1.6	27
2,4-Dinitrotoluene	ND	3.33	2.00	60	2.06	62	61	28	89	3.0	47
2-Chlorophenol	ND	3.33	3.30	99	3.27	98	99	25	102	0.9	50
4-Chloro-m-cresol	ND	3.33	2.67	80	2.71	81	81	26	103	1.5	33
4-Nitrophenol	ND	3.33	2.52	76	2.71	81	79	11	114	7.3	50
Acenaphthene	ND	3.33	2.66	80	2.72	82	81	31	137	2.2	19
N-Nitrosodipropylamine	ND	3.33	2.15	65	2.19	66	65	41	126	1.8	38
Pentachlorophenol	ND	3.33	2.17	65	2.19	66	65	17	109	0.9	47
Phenol	ND	3.33	2.68	80	2.76	83	82	26	90	2.9	35
Pyrene	ND	3.33	3.25	98	3.00	90	94	35	142	8.0	36

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-24A
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SCB
Std. Source: MS21202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 01/26/93
Time: 02:46
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.90	57	2.00	60	59	38	107	5.1	23
1,4-Dichlorobenzene	ND	3.33	1.72	52	1.87	56	54	28	104	8.4	27
2,4-Dinitrotoluene	ND	3.33	0.930	28	0.770	23	26*	28	89	19	47
2-Chlorophenol	ND	3.33	3.00	90	3.35	101	95	25	102	11	50
4-Chloro-m-cresol	ND	3.33	2.82	85	2.90	87	86	26	103	2.8	33
4-Nitrophenol	ND	3.33	0.980	29	1.12	34	32	11	114	13	50
Acenaphthene	4.00	3.33	12.8	264	6.89	87	176*	31	137	60*	19
N-Nitrosodipropylamine	ND	3.33	2.04	61	2.19	66	64	41	126	7.1	38
Pentachlorophenol	ND	3.33	1.24	37	1.34	40	39	17	109	7.8	47
Phenol	ND	3.33	2.53	76	2.78	83	80	26	90	9.4	35
Pyrene	2.75	3.33	15.0	368	6.90	125	246*	35	142	74*	36

Note: 2,4-Dinitrotoluene, Acenaphthene and Pyrene MS/MSD out of control limits due to matrix interferenc.

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-MB
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SB
Std. Source: G930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 01/25/93
Time: 00:34
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike		MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result		Duplicate	Result						
4,4'-DDT	ND	0.0400	0.0410		103	0.0440		110	106	32	120	7.1	50
ALDRIN	ND	0.0400	0.0310		78	0.0330		83	80	34	132	6.3	43
DIELDRIN	ND	0.0400	0.0330		83	0.0340		85	84	31	134	3.0	38
ENDRIN	ND	0.0400	0.0400		100	0.0430		108	104	42	139	7.2	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0320		80	0.0340		85	83	46	127	6.1	50
HEPTACHLOR	ND	0.0400	0.0350		88	0.0370		93	90	35	130	5.6	31

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-20A
Ext./Prep. Method: EPA3550
Date: 01/23/93
Analyst: SB
Std. Source: G930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 01/25/93
Time: 02:28
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike		MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result		Duplicate	Result						
4,4'-DDT	0.0720	0.0400	0.114	105	0.111	98	101	32	120	2.7	50		
ALDRIN	ND	0.0400	0.0410	103	0.0440	110	106	34	132	7.1	43		
DIELDRIN	ND	0.0400	0.0400	100	0.0410	103	101	31	134	2.5	38		
ENDRIN	ND	0.0400	0.0360	90	0.0370	93	91	42	139	2.7	45		
GAMMA-BHC (LINDANE)	ND	0.0400	0.0350	88	0.0360	90	89	46	127	2.8	50		
HEPTACHLOR	ND	0.0400	0.0300	75	0.0340	85	80	35	130	13	31		

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-06A
Ext./Prep. Method: EPA3050
Date: 01/26/93
Analyst: JSL
Std. Source: VHG21599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/26/93
Time: 11:
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.00	50.0	49.2	94	49.0	94	94	54	123	0.4	25
ARSENIC	4.00	50.0	52.9	98	51.2	94	96	72	115	3.3	25
BARIUM	85.0	50.0	152	134	138	106	120	46	155	9.7	25
BERYLLIUM	0.200	50.0	49.5	99	49.0	98	98	78	112	1.0	25
CADMIUM	0.500	50.0	50.0	99	49.3	98	98	80	111	1.4	25
CHROMIUM	26.0	50.0	75.8	100	77.3	103	101	60	135	2.0	25
COBALT	9.00	50.0	55.4	93	55.1	92	93	72	114	0.5	25
COPPER	102	50.0	151	98	146	88	93	72	127	3.4	25
LEAD	71.0	50.0	132	122	117	92	107	61	124	12	25
MOLYBDENUM	ND	54.0	48.5	90	48.2	89	90	69	119	0.6	25
NICKEL	36.0	50.0	83.3	95	92.0	112	103	54	132	9.9	25
SELENIUM	ND	50.0	49.4	99	49.2	98	99	63	117	0.4	25
SILVER	ND	45.0	50.1	111	49.6	110	111	79	118	1.0	25
THALLIUM	ND	50.0	35.8	72	35.0	70	71	63	115	2.3	25
VANADIUM	27.0	50.0	78.7	103	76.9	100	102	70	122	2.3	25
ZINC	137	50.0	190	106	173	72	89	64	133	9.4	25

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UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-06A
Ext./Prep. Method: EPA7471
Date: 01/25/93
Analyst: JSL
Std. Source: A92122801W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 01/26/93
Time: 3 :
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPO)
MERCURY	0.480	1.00	1.40	92	1.38	90	91	72	128	1.4	25

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-06A
Ext./Prep. Method: EPA 3010
Date: 01/25/93
Analyst: RAH
Std. Source: TCLP 120192
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/25/93
Time: 20:01
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike		MS	Matrix Spike Duplicate Result	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)		Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
ARSENIC	ND	5.00	4.93	99	5.15	103	101	75	125	4.4	20	
BARIUM	0.830	100	99.6	99	101	100	99	75	125	1.4	20	
CADMIUM	ND	1.00	0.980	98	0.994	99	99	75	125	1.4	20	
CHROMIUM	ND	5.00	4.82	96	4.92	98	97	75	125	2.1	20	
LEAD	ND	5.00	4.64	93	4.82	96	95	75	125	3.8	20	
SELENIUM	ND	1.00	1.12	112	1.06	106	109	75	125	5.5	20	
SILVER	ND	5.00	4.92	98	5.02	100	99	75	125	2.0	20	

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-40A
Ext./Prep. Method: EPA 3010
Date: 01/25/93
Analyst: RAH
Std. Source: VHG 2-1599
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/25/93
Time: 16:43
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	4.15	10.0	13.1	90	13.3	92	91	75	125	1.5	20

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Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301197-19B
Ext./Prep. Method: EPA9010
Date: 01/26/93
Analyst: MCN
Std. Source: BAKER 3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 01/26/93
Time: 01:
Analyst: MCN
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	ND	10.0	11.0	110	10.5	105	108	58	135	4.7	25

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOP = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93011.97

Clayton Lab Number: 9301191-25A
Ext./Prep. Method: EPA7.3.4.2
Date: 01/27/93
Analyst: HYW
Std. Source: BAKER #611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7.3.4.2
Instrument ID: 00008
Date: 01/28/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	272	245	90	240	88	89	61	111	2.1	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 28, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine Street, 10th Floor
San Francisco, CA 94111

ADDITIONAL REPORT
Client Ref. 2026.06I
Clayton Project No. 93011.39

Dear Ms. Wells:

Attached is our additional analytical laboratory report for the samples received on January 18, 1993 and originally reported to you on January 22, 1993.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93011.39

Sample Identification: 13-26
Lab Number: 9301139-26B
Sample Matrix/Media: SOIL

Date Sampled: 01/16/93
Date Received: 01/18/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
STLC Lead	5.0	0.1	mg/L	01/26/93	01/28/93	CAM WET	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Quality Assurance Results Summary
for
Clayton Project No. 93011.39

Clayton Lab Number: 9301055-17A
Ext./Prep. Method: EPA3010
Date: 01/28/93
Analyst: RAH
Std. Source: VHG2-1599
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 01/28/93
Time: 1:
Analyst: RAH
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	1.20	10.0	10.1	89	9.85	87	88	75	125	2.5	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

February 4, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine Street, 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06I
Clayton Project No. 93012.58

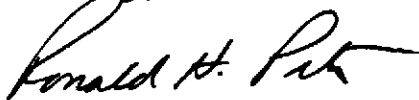
Dear Ms. Wells:

Enclosed are our analytical laboratory report and quality assurance data package for the samples received on January 29, 1993. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Enclosure

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-15	Date Sampled: 01/27/93
Lab Number: 9301258-15B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Prepared: 01/29/93
Preparation Method: EPA 5030	Date Analyzed: 01/29/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	16-15	Date Sampled:	01/27/93
Lab Number:	9301258-15B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/29/93
Preparation Method:	EPA 5030	Date Analyzed:	01/29/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	0.005	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.019	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.024	0.005
o-Xylene	95-47-6	0.012	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-15	Date Sampled: 01/27/93
Lab Number: 9301258-15B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Prepared: 01/29/93
Preparation Method: EPA 5030	Date Analyzed: 01/29/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	106	70 - 121
Toluene-d8	2037-26-5	97	81 - 117
Bromofluorobenzene	460-00-4	90	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	16-16	Date Sampled:	01/27/93
Lab Number:	9301258-16B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/29/93
Preparation Method:	EPA 5030	Date Analyzed:	01/29/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-16	Date Sampled: 01/27/93
Lab Number: 9301258-16B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Prepared: 01/29/93
Preparation Method: EPA 5030	Date Analyzed: 01/29/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.019	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.019	0.005
o-Xylene	95-47-6	0.009	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93012.58

Sample Identification:	16-16	Date Sampled:	01/27/93
Lab Number:	9301258-16B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Prepared:	01/29/93
Preparation Method:	EPA 5030	Date Analyzed:	01/29/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	113	70 - 121
Toluene-d8	2037-26-5	98	81 - 117
Bromofluorobenzene	460-00-4	88	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301258-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/29/93
Preparation Method:	EPA 5030	Date Analyzed:	01/29/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301258-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	01/29/93
Preparation Method:	EPA 5030	Date Analyzed:	01/29/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301258-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 01/29/93
Preparation Method: EPA 5030	Date Analyzed: 01/29/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	104	70 - 121
Toluene-d8	2037-26-5	95	81 - 117
Bromofluorobenzene	460-00-4	88	74 - 121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	16-15	Date Sampled:	01/27/93
Lab Number:	9301258-15B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/02/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-15
Lab Number: 9301258-15B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/27/93
Date Received: 01/29/93
Date Extracted: 01/29/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	2
Hexachloroethane	67-72-1	ND	2
Nitrobenzene	98-95-3	ND	2
Isophorone	78-59-1	ND	2
Benzoic acid	65-85-0	ND	8
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
1,2,4-trichlorobenzene	120-82-1	ND	2
Naphthalene	91-20-3	4	2
Hexachlorobutadiene	87-68-3	ND	2
2-chloronaphthalene	91-58-7	ND	2
2-methyl naphthalene	91-57-6	ND	2
4-chloroaniline	106-47-8	ND	10
2-nitroaniline	88-74-4	ND	10
3-nitroaniline	99-09-2	ND	10
4-nitroaniline	100-01-6	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	20
Dimethyl phthalate	131-11-3	ND	2
Acenaphthylene	208-96-8	ND	2
Acenaphthene	83-32-9	ND	2
Dibenzofuran	132-64-9	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-15	Date Sampled: 01/27/93
Lab Number: 9301258-15B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/02/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	2
2,6-dinitrotoluene	606-20-2	ND	2
Diethyl phthalate	84-66-2	ND	2
4-chlorophenylphenylether	7005-72-3	ND	2
Fluorene	86-73-7	ND	2
N-nitrosodiphenylamine	86-30-6	ND	2
4-bromophenylphenylether	101-55-3	ND	2
Hexachlorobenzene	118-74-1	ND	2
Phenanthrene	85-01-8	4	2
Anthracene	120-12-7	ND	2
Di-n-butylphthalate	84-74-2	ND	2
Fluoranthene	206-44-2	ND	2
Benzidine	92-87-5	ND	50
Pyrene	129-00-0	ND	2
Benzylbutylphthalate	85-68-7	ND	2
3,3'-dichlorobenzidine	91-94-1	ND	50
Benzo(a)anthracene	56-55-3	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	2

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-15	Date Sampled: 01/27/93
Lab Number: 9301258-15B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/02/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	80	25	121
Phenol-d6	13127-88-3	88	24	113
Nitrobenzene-d5	4165-60-0	81	23	120
2-Fluorobiphenyl	321-60-8	94	30	115
2,4,6-Tribromophenol	118-79-6	71	19	122
Terphenyl-d14	98904-43-9	99	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	16-16	Date Sampled:	01/27/93
Lab Number:	9301258-16B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/02/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	2
2-chlorophenol	95-57-8	ND	2
2-methyl phenol	95-48-7	ND	2
4-methyl phenol	106-44-5	ND	2
2-nitrophenol	88-75-5	ND	2
2,4-dimethylphenol	105-67-9	ND	2
2,4-dichlorophenol	120-83-2	ND	2
4-chloro-3-methylphenol	59-50-7	ND	2
2,4,5-trichlorophenol	95-95-4	ND	2
2,4,6-trichlorophenol	88-06-2	ND	2
2,4-dinitrophenol	51-28-5	ND	10
4-nitrophenol	100-02-7	ND	10
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

Base/Neutral Extractables

Bis(2-chloroethyl)ether	111-44-4	ND	2
1,3-dichlorobenzene	541-73-7	ND	2
1,4-dichlorobenzene	106-46-7	ND	2
Benzyl alcohol	100-51-6	ND	4
1,2-dichlorobenzene	95-50-1	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-16	Date Sampled: 01/27/93
Lab Number: 9301258-16B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/02/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Benzo(ghi)perylene	191-24-2	ND	2

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
2-Fluorophenol	367-12-4	77	25	121
Phenol-d6	13127-88-3	72	24	113
Nitrobenzene-d5	4165-60-0	78	23	120
2-Fluorobiphenyl	321-60-8	80	30	115
2,4,6-Tribromophenol	118-79-6	63	19	122
Terphenyl-d14	98904-43-9	95	18	137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301258-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/01/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
Phenol	108-95-2	ND	0.2
2-chlorophenol	95-57-8	ND	0.2
2-methyl phenol	95-48-7	ND	0.2
4-methyl phenol	106-44-5	ND	0.2
2-nitrophenol	88-75-5	ND	0.2
2,4-dimethylphenol	105-67-9	ND	0.2
2,4-dichlorophenol	120-83-2	ND	0.2
4-chloro-3-methylphenol	59-50-7	ND	0.2
2,4,5-trichlorophenol	95-95-4	ND	0.2
2,4,6-trichlorophenol	88-06-2	ND	0.2
2,4-dinitrophenol	51-28-5	ND	1
4-nitrophenol	100-02-7	ND	1
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
<u>Base/Neutral Extractables</u>			
Bis(2-chloroethyl)ether	111-44-4	ND	0.2
1,3-dichlorobenzene	541-73-7	ND	0.2
1,4-dichlorobenzene	106-46-7	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
1,2-dichlorobenzene	95-50-1	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301258-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
N-nitrosodi-n-propylamine	621-64-7	ND	0.2
Hexachloroethane	67-72-1	ND	0.2
Nitrobenzene	98-95-3	ND	0.2
Isophorone	78-59-1	ND	0.2
Benzoic acid	65-85-0	ND	0.8
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
1,2,4-trichlorobenzene	120-82-1	ND	0.2
Naphthalene	91-20-3	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
2-chloronaphthalene	91-58-7	ND	0.2
2-methyl naphthalene	91-57-6	ND	0.2
4-chloroaniline	106-47-8	ND	1
2-nitroaniline	88-74-4	ND	1
3-nitroaniline	99-09-2	ND	1
4-nitroaniline	100-01-6	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	2
Dimethyl phthalate	131-11-3	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Acenaphthene	83-32-9	ND	0.2
Dibenzofuran	132-64-9	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301258-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/01/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
2,4-dinitrotoluene	121-14-2	ND	0.2
2,6-dinitrotoluene	606-20-2	ND	0.2
Diethyl phthalate	84-66-2	ND	0.2
4-chlorophenylphenylether	7005-72-3	ND	0.2
Fluorene	86-73-7	ND	0.2
N-nitrosodiphenylamine	86-30-6	ND	0.2
4-bromophenylphenylether	101-55-3	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Benzidine	92-87-5	ND	5
Pyrene	129-00-0	ND	0.2
Benzylbutylphthalate	85-68-7	ND	0.2
3,3'-dichlorobenzidine	91-94-1	ND	5
Benzo(a)anthracene	56-55-3	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
Chrysene	218-01-9	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301258-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
2-Fluorophenol	367-12-4	67	25 - 121
Phenol-d6	13127-88-3	67	24 - 113
Nitrobenzene-d5	4165-60-0	69	23 - 120
2-Fluorobiphenyl	321-60-8	70	30 - 115
2,4,6-Tribromophenol	118-79-6	65	19 - 122
Terphenyl-d14	98904-43-9	92	18 - 137

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-26	Date Sampled: 01/28/93
Lab Number: 9301258-26B	Date Received: 01/29/93
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Organochlorine Pesticides

alpha-BHC	319-84-6	ND	0.03
gamma-BHC (Lindane)	58-89-9	ND	0.03
beta-BHC	319-85-7	ND	0.03
Heptachlor	76-44-8	ND	0.03
delta-BHC	319-86-8	ND	0.03
Aldrin	309-00-2	ND	0.03
Heptachlor epoxide	1024-57-3	ND	0.03
Endosulfan I	959-98-8	ND	0.03
4,4'-DDE	72-55-9	0.05	0.03
Dieldrin	60-57-1	ND	0.03
Endrin	72-20-8	ND	0.03
4,4'-DDD	72-54-8	0.11	0.03
Endosulfan II	33212-65-9	ND	0.03
4,4'-DDT	50-29-3	0.36	0.03
Endrin aldehyde	7421-93-4	ND	0.03
Endosulfan sulfate	1031-07-8	ND	0.03
Methoxychlor	72-43-5	ND	0.2
Chlordane	57-74-9	ND	0.2
Toxaphene	8001-35-2	ND	2

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.3
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification:	16-26	Date Sampled:	01/28/93
Lab Number:	9301258-26B	Date Received:	01/29/93
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/01/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.3
Aroclor 1232	11141-16-5	ND	0.3
Aroclor 1242	53469-21-9	ND	0.3
Aroclor 1248	12672-29-6	ND	0.3
Aroclor 1254	11097-69-1	ND	0.3
Aroclor 1260	11096-82-5	ND	0.3
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	108	24 - 150
Dibutylchlorodate	1770-80-5	132	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to dilution necessary for quantitation

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9301258-44A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	01/29/93
Extraction Method:	EPA 3550	Date Analyzed:	02/01/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.03
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9301258-44A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 01/29/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	81	24 - 150
Dibutylchloroendate	1770-80-5	79	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-1
Lab Number: 9301258-01
Sample Matrix/Media: SOIL

Date Sampled: 01/26/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	74	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	55	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Ignitability	NI	--	Degrees F	--	02/01/93	--	SW 7.1.2
Lead	81	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
pH	8.5	--	S.U.	--	02/02/93	--	EPA 9045
Reactive Cyanide	<1	1	mg/kg	--	02/03/93	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	02/02/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	8.1	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	22	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable
NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-3
Lab Number: 9301258-03
Sample Matrix/Media: SOIL

Date Sampled: 01/26/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	55	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	30	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	37	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	50	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	38	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	3.1	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	90	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-5
Lab Number: 9301258-05
Sample Matrix/Media: SOIL

Date Sampled: 01/27/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	74	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	53	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	92	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	6.5	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-15
Lab Number: 9301258-15
Sample Matrix/Media: SOIL

Date Sampled: 01/27/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	8	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	64	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	17	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	6	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	77	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	65	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	23	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	4.4	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	17	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	110	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND. Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-16
Lab Number: 9301258-16
Sample Matrix/Media: SOIL

Date Sampled: 01/27/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	57	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	95	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	60	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	1.2	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	2.0	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-18
Lab Number: 9301258-18
Sample Matrix/Media: SOIL

Date Sampled: 01/27/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	82	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	25	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	58	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	100	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.6	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	37	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	5.8	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	26	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-26
Lab Number: 9301258-26
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Barium	63	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.3	0.1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Copper	86	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Lead	130	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	4.4	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Zinc	160	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-27
Lab Number: 9301258-27
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	4	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	62	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	21	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	73	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	88	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	2.6	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	3.7	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	23	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: 16-33
Lab Number: 9301258-33
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	4	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	9	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	61	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	0.5	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	16	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	9	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	75	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	100	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	26	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	4.6	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	23	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	200	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93012.58

Sample Identification: 16-42
Lab Number: 9301258-42
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 01/29/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Barium	81	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Copper	69	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Lead	120	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.9	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Nickel	27	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	6.1	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	02/01/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93012.58

Sample Identification: METHOD BLANK
Lab Number: 9301258-44
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	02/01/93	02/01/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Reactive Cyanide	<1	1	mg/kg	--	02/03/93	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	02/02/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	01/29/93	02/01/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	01/29/93	02/02/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Vanadium	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	02/01/93	02/02/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 1/29/93

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**



Page 1 of 1

Berth 30

Port of Oakland

Project No. 2026.06

Due 2/1/93


9301259


Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
16-1	1/26/93	21:00	2695	total CAM 17 metals; WET-Pb; TCLP-Pb; PCL	Homogenize entire tube before analysis
16-3	1/26/93	23:00	2695	total CAM-17 metals; WET-Pb; TCLP-Pb	↓
16-5	1/27/93	02:00	2695	total CAM 17 metals; WET-Pb; TCLP-Pb	
16-15	1/27/93	13:54	2624	total CAM 17 metals; WET-Pb; TCLP-Pb; B240, B270	
16-16	1/27/93	14:50	2624	total CAM 17 metals; WET-Pb; TCLP-Pb; B240, B270	↓
16-18	1/27/93	21:45	2624	total CAM 17 metals WET-Pb; TCLP-Pb	Homogenize entire tube before analysis
16-26	1/28/93	02:10	2696	total CAM 17 metals; WET-Pb; TCLP-Pb; B0B0	↓
16-27	1/28/93	03:00	2696	total CAM 17 metals; WET-Pb; TCLP-Pb	
16-33	1/28/93	10:04	2696	total CAM 17 metals; WET-Pb; TCLP-Pb	
16-42	1/29	15:35	2697	total CAM 17 metals; WET-Pb; TCLP-Pb	

Turnaround time: 4 days

Results to: Elizabeth Wells

Requested by: Elizabeth Wells
Bill Port of Oakland directly


Chain-of-Custody Record			No. 2695										Date: 01/26/93 - 01/27/93			Page 1 of 4							
Project No.: 2026.06I			ANALYSES										REMARKS										
Samplers (Signatures): <i>Jeffrey Spear</i> <i>Paul Ziano</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX													Additional comments	
Date	Time	Sample Number																					
01/26/93	21:00	16-1																X	S			Bill Port of Oakland directly.	
	22:10	16-2																X	S				
	23:00	16-3																X	S				
01/27/93	00:45	16-4																X	S				
	02:00	16-5																X	S				
	03:30	16-6																X	S				
	04:30	16-7																X	S				
	8:05	16-8																X	S				
	9:00	16-9																X	S				
	9:54	16-10																X	S				
	10:54	16-11																X	S				
	11:30	16-12																X	S				
			Turnaround time: HOLD				Results to: Elizabeth Wells				Total No. of containers: 12												
Relinquished by:		Date:	Relinquished by:		Date:	Relinquished by:		Date:	Method of shipment:														
<i>Paul Ziano</i>		1/29/93	<i>Jim Mitchell</i>		1/29/93				Pick up at site														
Printed name: Paul Ziano			Printed name: JIM MITCHELL						Laboratory comments and Log No:														
Company: Geometrix			Company: CEC						9301258														
Received by:		Time:	Received by:		Time:	Received by:		Time:															
<i>Jim Mitchell</i>		8:40 AM	<i>Terry Salvo</i>		9:25 AM																		
Printed name: JIM MITCHELL			Printed name: TERRY SALVO		1/29/93																		
Company: CEC			Company: C.E.C.																				
											 Geometrix Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400												

Chain-of-Custody Record			No. 2624										Date: 1/27/93-1/28/93			Page 2 of 4									
Project No.: 2026.06.I			ANALYSES										REMARKS												
Samplers (Signatures): Paul Ziano Jeffrey L. Pagan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	Held													Additional comments		
Date	Time	Sample Number																							
1/27/93	11:55	16-13								X														Bill Port of Oakland directly	
	13:10	16-14								X															
	13:54	16-15								X															
	14:50	16-16								X															
	20:20	16-17								X															
	21:45	16-18								X															
	22:15	16-19								X															
	22:40	16-20								X															
✓	23:00	16-21								X															
0/28/93	00:30	16-22								X															
	01:00	16-23								X															
✓	01:15	16-24								X															
			Turnaround time: Hold					Results to: Elizabeth Wells					Total No. of containers: 12												
Relinquished by:			Date: 1/29/93					Relinquished by: Jim Mitchell					Date: 1/29/93					Method of shipment: Pickup at Site							
Signature: Paul Ziano								Signature: Jim Mitchell										Laboratory comments and Log No.:							
Printed name: Paul Ziano								Printed name: JIM MITCHELL										9301258							
Company: Geomatrix								Company: CEC																	
Received by:			Time: 8:40 AM					Received by: Terry Salvo					Time: 9:25 AM												
Signature: Jim Mitchell								Signature: Terry Salvo										 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA. 94111 (415) 434-9400							
Printed name: JIM MITCHELL								Printed name: T. E. C.																	
Company: CEC								Company: C.E.C.																	

Chain-of-Custody Record No. **2696** Date: **01/28/93** Page **3** of **4**

Project No.: 2026.06I			ANALYSES												REMARKS										
Samplers (Signatures): <i>Jeffrey Hagan</i> <i>Paul Zicarro</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX															Additional comments	
Date	Time	Sample Number																							
01/28/93	01:40	16-25																						Bill Port of Oakland directly.	
	02:10	16-26																							
	03:00	16-27																							
	7:05	16-28																							
	7:36	16-29																							
	7:40	16-30																							
	7:50	16-31																							
	7:25	16-32																							
	10:04	16-33																							
	10:37	16-34																							
	11:10	16-35																							
	11:35	16-36																							


Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: Signature: <i>Paul Zicarro</i> Printed name: Paul Zicarro Company: Geomatrix	Date: 1/28/93	Relinquished by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CEC	Date: 1/29/93	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: Pick up at site
Received by: Signature: <i>Jim Mitchell</i> Printed name: JIM MITCHELL Company: CEC	Time: 8:40 AM	Received by: Signature: <i>Terry Salvo</i> Printed name: Terry Salvo Company: C.E.C.	Time: 9:25 AM 1/29/93	Received by: Signature: Printed name: Company:	Time:	Laboratory comments and Log No.: 9301258
						 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434 9400

Chain-of-Custody Record No. 2697 Date: 1/28/93 Page 4 of 4

Project No.: 2026.06I			ANALYSES										REMARKS										
Samplers (Signatures): Paul Ziarro Jeffrey Huan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	Hold												Additional comments	
Date	Time	Sample Number																					
1/28/93	12:45	16-37								X												Bill Port of Oakland directly	
	12:45	16-38								X													
	13:36	16-39								X													
	13:59	16-40								X													
	14:40	16-41								X													
	15:15	16-42								X													
	15:35	16-43								X													

Turnaround time: Hold Results to: Elizabeth Wells Total No. of containers: 7

Relinquished by: Signature: Paul Ziarro Printed name: Paul Ziarro Company: Geomatrix	Date: 1/29/93	Relinquished by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CEC	Date: 1/29/93	Relinquished by:	Date:	Method of shipment: Pick up at Site Laboratory comments and Log No.: 9301258
Received by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CEC	Time: 8:40 AM	Received by: Signature: Terry Salvo Printed name: TERRY SALVO Company: C.E.C.	Time: 9:25 AM 1/29/93	Received by:	Time:	 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434 9400

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 93012.58

Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301258-16A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: M921223-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02831
Date: 01/30/93
Time: 00:43
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0510	102	0.0550	110	106	59	172	7.5	22
BENZENE	ND	0.0500	0.0520	104	0.0520	104	104	66	142	0.0	21
CHLOROBENZENE	ND	0.0500	0.0480	96	0.0450	90	93	60	133	6.5	21
TOLUENE	ND	0.0500	0.0520	104	0.0520	104	104	59	139	0.0	21
TRICHLOROETHENE	ND	0.0500	0.0470	94	0.0480	96	95	62	137	2.1	24

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301247-02A
Ext./Prep. Method: EPA 3550
Date: 01/29/93
Analyst: SB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB270
Instrument ID: 05624
Date: 02/01/93
Time: 20:13
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.80	54	1.90	57	56	38	107	5.4	23
1,4-Dichlorobenzene	ND	3.33	1.80	54	2.00	60	57	28	104	11	27
2,4-Dinitrotoluene	ND	3.33	1.20	36	1.10	33	35	28	89	8.7	47
2-Chlorophenol	ND	3.33	3.40	102	3.30	99	101	25	102	3.0	50
4-Chloro-m-cresol	ND	3.33	2.80	84	2.80	84	84	26	103	0.0	33
4-Nitrophenol	ND	3.33	2.70	81	3.80	114	98	11	114	34	50
Acenaphthene	ND	3.33	2.90	87	3.00	90	89	31	137	3.4	19
N-Nitrosodipropylamine	ND	3.33	2.40	72	2.50	75	74	41	126	4.1	38
Pentachlorophenol	ND	3.33	3.00	90	3.10	93	92	17	109	3.3	47
Phenol	ND	3.33	3.00	90	3.10	93	92*	26	90	3.3	35
Pyrene	ND	3.33	3.90	117	4.00	120	119	35	142	2.5	36

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Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301247-02B
Ext./Prep. Method: EPA3550
Date: 01/29/93
Analyst: GD
Std. Source: 6930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 02/01/93
Time: 03:14
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	ND	0.0400	0.0277	69	0.0364	91	80	32	120	27	50
ALDRIN	ND	0.0400	0.0295	74	0.0304	76	75	34	132	3.0	43
DIELDRIN	ND	0.0400	0.0406	102	0.0405	101	101	31	134	0.3	38
ENDRIN	ND	0.0400	0.0329	82	0.0385	96	89	42	139	16	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0247	62	0.0265	66	64	46	127	7.0	50
HEPTACHLOR	ND	0.0400	0.0300	75	0.0317	79	77	35	130	5.5	31

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Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301247-MB
Ext./Prep. Method: EPA3550
Date: 01/29/93
Analyst: GD
Std. Source: G930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 02/01/93
Time: 00:01
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike		MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)	Duplicate	Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
4,4'-DDT	ND	0.0400	0.0343		86	0.0349		87	87	32	120	1.7	50
ALDRIN	ND	0.0400	0.0246		62	0.0289		72	67	34	132	16	43
DIELDRIN	ND	0.0400	0.0266		67	0.0294		74	70	31	134	10	38
ENDRIN	ND	0.0400	0.0309		77	0.0331		83	80	42	139	6.9	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0253		63	0.0298		75	69	46	127	16	50
HEPTACHLOR	ND	0.0400	0.0278		70	0.0320		80	75	35	130	14	31

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Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9302009-11A
Ext./Prep. Method: EPA 3050
Date: 02/02/93
Analyst: JSL
Std. Source: VHG 2-1599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 02/03/93
Time: 11:24
Analyst: DS
Units: NG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.50	50.0	45.4	86	45.6	86	86	54	123	0.4	25
ARSENIC	5.50	50.0	52.3	94	51.3	92	93	72	115	1.9	25
BARIUM	87.3	50.0	130	85	139	103	94	46	155	6.7	25
BERYLLIUM	0.150	50.0	49.8	99	48.7	97	98	78	112	2.2	25
CADMIUM	0.250	50.0	50.0	100	49.4	98	99	80	111	1.2	25
CHROMIUM	28.7	50.0	78.7	100	75.8	94	97	60	135	3.8	25
COBALT	9.77	50.0	57.7	96	57.6	96	96	72	114	0.2	25
COPPER	65.1	50.0	108	86	105	80	83	72	127	2.8	25
LEAD	103	50.0	147	88	152	98	93	61	124	3.3	25
MOLYBDENUM	0.760	54.0	49.5	90	48.5	88	89	69	119	2.0	25
NICKEL	35.8	50.0	80.6	90	80.1	89	89	54	132	0.6	25
SELENIUM	ND	50.0	48.1	96	47.8	96	96	63	117	0.6	25
SILVER	ND	50.0	51.3	103	50.5	101	102	79	118	1.6	25
THALLIUM	ND	50.0	39.2	78	38.6	77	78	63	115	1.5	25
VANADIUM	29.6	50.0	78.3	97	79.8	100	99	70	122	1.9	25
ZINC	143	50.0	191	96	205	124	110	64	133	7.1	25

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UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301258-03A
Ext./Prep. Method: EPA 3050
Date: 02/01/93
Analyst: JSL
Std. Source: VHG 2-1599
Sample Matrix/Media: SOIL

Analytical Method: EPA6010
Instrument ID: 03891
Date: 02/02/93
Time: 10:18
Analyst: DS
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.10	50.0	47.2	90	47.2	90	90	54	123	0.0	25
ARSENIC	5.70	50.0	55.6	100	53.9	96	98	72	115	3.1	25
BARIUM	54.8	50.0	114	118	106	102	110	46	155	7.3	25
BERYLLIUM	0.100	50.0	48.7	97	49.1	98	98	78	112	0.8	25
CADMIUM	0.330	50.0	49.5	98	48.7	97	98	80	111	1.6	25
CHROMIUM	30.1	50.0	74.7	89	70.8	81	85	60	135	5.4	25
COBALT	7.90	50.0	55.1	94	53.4	91	93	72	114	3.1	25
COPPER	37.1	50.0	90.3	106	85.9	98	102	72	127	5.0	25
LEAD	49.7	50.0	105	111	116	133	122	61	124	10.0	25
MOLYBDENUM	ND	54.0	48.4	90	47.5	88	89	69	119	1.9	25
NICKEL	37.6	50.0	81.1	87	74.7	74	81	54	132	8.2	25
SELENIUM	ND	50.0	48.4	97	48.6	97	97	63	117	0.4	25
SILVER	ND	50.0	55.2	110	49.2	98	104	79	118	11	25
THALLIUM	ND	50.0	39.3	79	39.3	79	79	63	115	0.0	25
VANADIUM	25.3	50.0	74.3	98	70.7	91	94	70	122	5.0	25
ZINC	90.2	50.0	165	150	131	82	116	64	133	23	25

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ND = Not detected at or above limit of detection

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Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301258-01A
Ext./Prep. Method: EPA3010
Date: 02/01/93
Analyst: RAH
Std. Source: VHG21599
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 02/01/93
Time: 5 :
Analyst: RAH
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	8.10	10.0	17.3	92	17.8	97	95	75	125	2.8	20

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UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
 for
 Clayton Project No. 93012.58

Clayton Lab Number: 9301258-01A
 Ext./Prep. Method: EPA 3010
 Date: 02/01/93
 Analyst: RAH
 Std. Source: TCLP 921201
 Sample Matrix/Media: TCLP

Analytical Method: EPA601D
 Instrument ID: 03891
 Date: 02/02/93
 Time: 15:33
 Analyst: DS
 Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	4.18	84	4.42	88	86	75	125	5.6	20

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Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9302017-05A
Ext./Prep. Method: EPA9010
Date: 02/02/93
Analyst: TK
Std. Source: BAKER3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 02/03/93
Time: 09:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	0.423	10.0	10.7	103	10.2	98	100	58	135	5.3	25

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SOR = Spike out of range due to high sample concentration

Quality Assurance Results Summary
for
Clayton Project No. 93012.58

Clayton Lab Number: 9301258-01A
Ext./Prep. Method: EPA7 3 4 2
Date: 02/02/93
Analyst: TK
Std. Source: BAKER611700
Sample Matrix/Media: SOIL

Analytical Method: EPA7 3 4 2
Instrument ID: 00008
Date: 02/02/93
Time: 03:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	272	228	84	198	73	78	61	111	14	25

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Western Operations

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P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

February 5, 1993

Ms. Elizabeth Wells
GEOMATRIX CONSULTANTS
100 Pine Street, 10th Floor
San Francisco, CA 94111

Client Ref. 2026.06I
Clayton Project No. 93020.09

Dear Ms. Wells:

Attached is our analytical laboratory report and quality assurance data package for the samples received on February 1, 1993. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

cc: Patricia Murphy

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-7	Date Sampled: 01/28/93
Lab Number: 9302009-07B	Date Received: 02/01/93
Sample Matrix/Media: SOIL	Date Prepared: 02/02/93
Preparation Method: EPA 5030	Date Analyzed: 02/02/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-7
Lab Number: 9302009-07B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 01/28/93
Date Received: 02/01/93
Date Prepared: 02/02/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	0.007	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	0.010	0.005
o-Xylene	95-47-6	0.006	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection

-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	17-7	Date Sampled:	01/28/93
Lab Number:	9302009-07B	Date Received:	02/01/93
Sample Matrix/Media:	SOIL	Date Prepared:	02/02/93
Preparation Method:	EPA 5030	Date Analyzed:	02/02/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)	
			LCL	UCL
<u>Purgeable Organics (continued)</u>				
Carbon disulfide	75-15-0	ND	0.005	
Styrene	100-42-5	ND	0.005	
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
1,2-Dichloroethane-d4	17060-07-0	101	70	121
Toluene-d8	2037-26-5	101	81	117
Bromofluorobenzene	460-00-4	91	74	121

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-23	Date Sampled: 01/29/93
Lab Number: 9302009-23B	Date Received: 02/01/93
Sample Matrix/Media: SOIL	Date Prepared: 02/02/93
Preparation Method: EPA 5030	Date Analyzed: 02/02/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	17-23	Date Sampled:	01/29/93
Lab Number:	9302009-23B	Date Received:	02/01/93
Sample Matrix/Media:	SOIL	Date Prepared:	02/02/93
Preparation Method:	EPA 5030	Date Analyzed:	02/02/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-23
Lab Number: 9302009-23B
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: 01/29/93
Date Received: 02/01/93
Date Prepared: 02/02/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	103	70 - 121
Toluene-d8	2037-26-5	103	81 - 117
Bromofluorobenzene	460-00-4	95	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9302009-42A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 02/02/93
Preparation Method: EPA 5030	Date Analyzed: 02/02/93
Analytical Method: EPA 8240	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics</u>			
Chloromethane	74-87-3	ND	0.005
Bromomethane	74-83-9	ND	0.005
Vinyl chloride	75-01-4	ND	0.005
Chloroethane	75-00-3	ND	0.005
Methylene chloride	75-09-2	ND	0.005
Trichlorofluoromethane	75-69-4	ND	0.005
1,1-Dichloroethene	75-35-4	ND	0.005
1,1-Dichloroethane	75-35-3	ND	0.005
Trans-1,2-Dichloroethene	156-60-5	ND	0.005
Cis-1,2-Dichloroethene	156-59-2	ND	0.005
Chloroform	67-66-3	ND	0.005
1,2-Dichloroethane	107-06-2	ND	0.005
1,1,1-Trichloroethane	71-55-6	ND	0.005
Carbon tetrachloride	56-23-5	ND	0.005
Bromodichloromethane	75-27-4	ND	0.005
1,2-Dichloropropane	78-87-5	ND	0.005
Cis-1,3-Dichloropropene	10061-01-5	ND	0.005
Trichloroethene	79-01-6	ND	0.005
Benzene	71-43-2	ND	0.005
Dibromochloromethane	124-48-1	ND	0.005

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK
Lab Number: 9302009-42A
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Analytical Method: EPA 8240

Date Sampled: --
Date Received: --
Date Prepared: 02/02/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
1,1,2-Trichloroethane	79-00-5	ND	0.005
Trans-1,3-Dichloropropene	10061-02-6	ND	0.005
2-Chloroethylvinylether	110-75-8	ND	0.005
Bromoform	75-25-2	ND	0.005
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005
Tetrachloroethene	127-18-4	ND	0.005
Toluene	108-88-3	ND	0.005
Chlorobenzene	108-90-7	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
1,3-Dichlorobenzene	541-73-7	ND	0.005
1,2-Dichlorobenzene	95-50-1	ND	0.005
1,4-Dichlorobenzene	106-46-7	ND	0.005
Freon 113	76-13-1	ND	0.005
p,m-Xylenes	--	ND	0.005
o-Xylene	95-47-6	ND	0.005
Acetone	67-64-1	ND	0.02
2-Butanone	78-93-3	ND	0.02
4-Methyl-2-pentanone	108-10-1	ND	0.02
2-Hexanone	591-78-6	ND	0.02
Vinyl acetate	108-05-4	ND	0.01

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9302009-42A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Prepared:	02/02/93
Preparation Method:	EPA 5030	Date Analyzed:	02/02/93
Analytical Method:	EPA 8240		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Purgeable Organics (continued)</u>			
Carbon disulfide	75-15-0	ND	0.005
Styrene	100-42-5	ND	0.005
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
1,2-Dichloroethane-d4	17060-07-0	102	70 - 121
Toluene-d8	2037-26-5	100	81 - 117
Bromofluorobenzene	460-00-4	99	74 - 121

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-7
Lab Number: 9302009-07B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/28/93
Date Received: 02/01/93
Date Extracted: 02/01/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	2
2,4-Dichlorophenol	120-83-2	ND	2
2,4-Dimethylphenol	105-67-9	ND	2
2,4-Dinitrophenol	51-28-5	ND	10
2-Methyl-4,6-dinitrophenol	534-52-1	ND	10
2-Methylphenol	95-48-7	ND	2
4-Methylphenol	106-44-5	ND	2
2-Nitrophenol	88-75-5	ND	2
4-Nitrophenol	100-02-7	ND	10
Pentachlorophenol	87-86-5	ND	10
Phenol	108-95-2	ND	2
2,4,5-Trichlorophenol	95-95-4	ND	2
2,4,6-Trichlorophenol	88-06-2	ND	2
<u>Base/Neutral Extractables</u>			
Acenaphthene	83-32-9	ND	2
Acenaphthylene	208-96-8	ND	2
Anthracene	120-12-7	ND	2
Benzidine	92-87-5	ND	50
Benzoic acid	65-85-0	ND	8
Benzo(a)anthracene	56-55-3	ND	2
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Benzyl alcohol	100-51-6	ND	4
Benzyl butyl phthalate	85-68-7	ND	2
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
Bis-(2-chloroethyl)ether	111-44-4	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
4-Bromophenyl phenyl ether	101-55-3	ND	2
4-Chloroaniline	106-47-8	ND	10
2-Chloronaphthalene	91-58-7	ND	2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93020.09

Sample Identification:	17-7	Date Sampled:	01/28/93
Lab Number:	9302009-07B	Date Received:	02/01/93
Sample Matrix/Media:	SOIL	Date Extracted:	02/01/93
Extraction Method:	EPA 3550	Date Analyzed:	02/02/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
4-Chlorophenyl phenyl ether	7005-72-3	ND	2
Chrysene	218-01-9	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Dibenzofuran	132-64-9	ND	2
Di-n-butylphthalate	84-74-2	ND	2
1,2-Dichlorobenzene	95-50-1	ND	2
1,3-Dichlorobenzene	541-73-7	ND	2
1,4-Dichlorobenzene	106-46-7	ND	2
3,3'-Dichlorobenzidine	91-94-1	ND	50
Diethylphthalate	84-66-2	ND	2
Dimethylphthalate	131-11-3	ND	2
2,4-Dinitrotoluene	121-14-2	ND	2
2,6-Dinitrotoluene	606-20-2	ND	2
Di-n-octylphthalate	117-84-0	ND	2
Fluoranthene	206-44-2	2	2
Fluorene	86-73-7	ND	2
Hexachlorobenzene	118-74-1	ND	2
Hexachlorobutadiene	87-68-3	ND	2
Hexachlorocyclopentadiene	77-47-4	ND	20
Hexachloroethane	67-72-1	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Isophorone	78-59-1	ND	2
2-Methyl naphthalene	91-57-6	ND	2
Naphthalene	91-20-3	4	2
2-Nitroaniline	88-74-4	ND	10
3-Nitroaniline	99-09-2	ND	10
4-Nitroaniline	100-01-6	ND	10
Nitrobenzene	98-95-3	ND	2
N-Nitrosodiphenylamine	86-30-6	ND	2
N-Nitrosodi-n-propylamine	621-64-7	ND	2
Phenanthrene	85-01-8	4	2
Pyrene	129-00-0	ND	2
1,2,4-Trichlorobenzene	120-82-1	ND	2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-7
Lab Number: 9302009-07B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/28/93
Date Received: 02/01/93
Date Extracted: 02/01/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
2-Fluorobiphenyl	321-60-8	96	30 - 115
2-Fluorophenol	367-12-4	94	25 - 121
Nitrobenzene-d5	4165-60-0	81	23 - 120
Phenol-d6	13127-88-3	86	24 - 113
Terphenyl-d14	98904-43-9	98	18 - 137
2,4,6-Tribromophenol	118-79-6	69	19 - 122

ND: Not detected at or above limit of detection
--: Information not available or not applicable
Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	17-23	Date Sampled:	01/29/93
Lab Number:	9302009-23B	Date Received:	02/01/93
Sample Matrix/Media:	SOIL	Date Extracted:	02/03/93
Extraction Method:	EPA 3550	Date Analyzed:	02/03/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	2
2,4-Dichlorophenol	120-83-2	ND	2
2,4-Dimethylphenol	105-67-9	ND	2
2,4-Dinitrophenol	51-28-5	ND	10
2-Methyl-4,6-dinitrophenol	534-52-1	ND	10
2-Methylphenol	95-48-7	ND	2
4-Methylphenol	106-44-5	ND	2
2-Nitrophenol	88-75-5	ND	2
4-Nitrophenol	100-02-7	ND	10
Pentachlorophenol	87-86-5	ND	10
Phenol	108-95-2	ND	2
2,4,5-Trichlorophenol	95-95-4	ND	2
2,4,6-Trichlorophenol	88-06-2	ND	2

Base/Neutral Extractables

Acenaphthene	83-32-9	ND	2
Acenaphthylene	208-96-8	ND	2
Anthracene	120-12-7	ND	2
Benzidine	92-87-5	ND	50
Benzoic acid	65-85-0	ND	8
Benzo(a)anthracene	56-55-3	ND	2
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	2
Benzo(ghi)perylene	191-24-2	ND	2
Benzo(a)pyrene	50-32-8	ND	2
Benzyl alcohol	100-51-6	ND	4
Benzyl butyl phthalate	85-68-7	ND	2
Bis-(2-chloroethoxy)methane	111-91-1	ND	2
Bis-(2-chloroethyl)ether	111-44-4	ND	2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	20
4-Bromophenyl phenyl ether	101-55-3	ND	2
4-Chloroaniline	106-47-8	ND	10
2-Chloronaphthalene	91-58-7	ND	2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-23
Lab Number: 9302009-23B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: 01/29/93
Date Received: 02/01/93
Date Extracted: 02/03/93
Date Analyzed: 02/03/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
4-Chlorophenyl phenyl ether	7005-72-3	ND	2
Chrysene	218-01-9	ND	2
Dibenzo(a,h)anthracene	53-70-3	ND	2
Dibenzofuran	132-64-9	ND	2
Di-n-butylphthalate	84-74-2	ND	2
1,2-Dichlorobenzene	95-50-1	ND	2
1,3-Dichlorobenzene	541-73-7	ND	2
1,4-Dichlorobenzene	106-46-7	ND	2
3,3'-Dichlorobenzidine	91-94-1	ND	50
Diethylphthalate	84-66-2	ND	2
Dimethylphthalate	131-11-3	ND	2
2,4-Dinitrotoluene	121-14-2	ND	2
2,6-Dinitrotoluene	606-20-2	ND	2
Di-n-octylphthalate	117-84-0	ND	2
Fluoranthene	206-44-2	ND	2
Fluorene	86-73-7	ND	2
Hexachlorobenzene	118-74-1	ND	2
Hexachlorobutadiene	87-68-3	ND	2
Hexachlorocyclopentadiene	77-47-4	ND	20
Hexachloroethane	67-72-1	ND	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2
Isophorone	78-59-1	ND	2
2-Methyl naphthalene	91-57-6	ND	2
Naphthalene	91-20-3	3	2
2-Nitroaniline	88-74-4	ND	10
3-Nitroaniline	99-09-2	ND	10
4-Nitroaniline	100-01-6	ND	10
Nitrobenzene	98-95-3	ND	2
N-Nitrosodiphenylamine	86-30-6	ND	2
N-Nitrosodi-n-propylamine	621-64-7	ND	2
Phenanthrene	85-01-8	2	2
Pyrene	129-00-0	ND	2
1,2,4-Trichlorobenzene	120-82-1	ND	2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	17-23	Date Sampled:	01/29/93
Lab Number:	9302009-23B	Date Received:	02/01/93
Sample Matrix/Media:	SOIL	Date Extracted:	02/03/93
Extraction Method:	EPA 3550	Date Analyzed:	02/03/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
2-Fluorobiphenyl	321-60-8	85	30 - 115
2-Fluorophenol	367-12-4	68	25 - 121
Nitrobenzene-d5	4165-60-0	79	23 - 120
Phenol-d6	13127-88-3	75	24 - 113
Terphenyl-d14	98904-43-9	94	18 - 137
2,4,6-Tribromophenol	118-79-6	61	19 - 122

ND: Not detected at or above limit of detection
 --: Information not available or not applicable
 Results are reported on a wet weight basis, as received

Note: Detection limits increased due to matrix interferences

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK
Lab Number: 9302009-42A
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8270

Date Sampled: --
Date Received: --
Date Extracted: 02/02/93
Date Analyzed: 02/02/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Acid Extractables</u>			
4-Chloro-3-methylphenol	59-50-7	ND	0.2
2-Chlorophenol	95-57-8	ND	0.2
2,4-Dichlorophenol	120-83-2	ND	0.2
2,4-Dimethylphenol	105-67-9	ND	0.2
2,4-Dinitrophenol	51-28-5	ND	1
2-Methyl-4,6-dinitrophenol	534-52-1	ND	1
2-Methylphenol	95-48-7	ND	0.2
4-Methylphenol	106-44-5	ND	0.2
2-Nitrophenol	88-75-5	ND	0.2
4-Nitrophenol	100-02-7	ND	1
Pentachlorophenol	87-86-5	ND	1
Phenol	108-95-2	ND	0.2
2,4,5-Trichlorophenol	95-95-4	ND	0.2
2,4,6-Trichlorophenol	88-06-2	ND	0.2
<u>Base/Neutral Extractables</u>			
Acenaphthene	83-32-9	ND	0.2
Acenaphthylene	208-96-8	ND	0.2
Anthracene	120-12-7	ND	0.2
Benzidine	92-87-5	ND	5
Benzoic acid	65-85-0	ND	0.8
Benzo(a)anthracene	56-55-3	ND	0.2
Benzo(b)fluoranthene	205-99-2	ND	0.2
Benzo(k)fluoranthene	207-08-9	ND	0.2
Benzo(ghi)perylene	191-24-2	ND	0.2
Benzo(a)pyrene	50-32-8	ND	0.2
Benzyl alcohol	100-51-6	ND	0.4
Benzyl butyl phthalate	85-68-7	ND	0.2
Bis-(2-chloroethoxy)methane	111-91-1	ND	0.2
Bis-(2-chloroethyl)ether	111-44-4	ND	0.2
Bis-(2-chloroisopropyl)ether	108-60-1	ND	0.2
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	2
4-Bromophenyl phenyl ether	101-55-3	ND	0.2
4-Chloroaniline	106-47-8	ND	1
2-Chloronaphthalene	91-58-7	ND	0.2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9302009-42A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	02/02/93
Extraction Method:	EPA 3550	Date Analyzed:	02/02/93
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Base/Neutral Extractables (continued)</u>			
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.2
Chrysene	218-01-9	ND	0.2
Dibenzo(a,h)anthracene	53-70-3	ND	0.2
Dibenzofuran	132-64-9	ND	0.2
Di-n-butylphthalate	84-74-2	ND	0.2
1,2-Dichlorobenzene	95-50-1	ND	0.2
1,3-Dichlorobenzene	541-73-7	ND	0.2
1,4-Dichlorobenzene	106-46-7	ND	0.2
3,3'-Dichlorobenzidine	91-94-1	ND	5
Diethylphthalate	84-66-2	ND	0.2
Dimethylphthalate	131-11-3	ND	0.2
2,4-Dinitrotoluene	121-14-2	ND	0.2
2,6-Dinitrotoluene	606-20-2	ND	0.2
Di-n-octylphthalate	117-84-0	ND	0.2
Fluoranthene	206-44-2	ND	0.2
Fluorene	86-73-7	ND	0.2
Hexachlorobenzene	118-74-1	ND	0.2
Hexachlorobutadiene	87-68-3	ND	0.2
Hexachlorocyclopentadiene	77-47-4	ND	2
Hexachloroethane	67-72-1	ND	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.2
Isophorone	78-59-1	ND	0.2
2-Methyl naphthalene	91-57-6	ND	0.2
Naphthalene	91-20-3	ND	0.2
2-Nitroaniline	88-74-4	ND	1
3-Nitroaniline	99-09-2	ND	1
4-Nitroaniline	100-01-6	ND	1
Nitrobenzene	98-95-3	ND	0.2
N-Nitrosodiphenylamine	86-30-6	ND	0.2
N-Nitrosodi-n-propylamine	621-64-7	ND	0.2
Phenanthrene	85-01-8	ND	0.2
Pyrene	129-00-0	ND	0.2
1,2,4-Trichlorobenzene	120-82-1	ND	0.2

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9302009-42A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 02/02/93
Extraction Method: EPA 3550	Date Analyzed: 02/02/93
Analytical Method: EPA 8270	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
2-Fluorobiphenyl	321-60-8	79	30 - 115
2-Fluorophenol	367-12-4	74	25 - 121
Nitrobenzene-d5	4165-60-0	89	23 - 120
Phenol-d6	13127-88-3	87	24 - 113
Terphenyl-d14	98904-43-9	97	18 - 137
2,4,6-Tribromophenol	118-79-6	77	19 - 122

ND: Not detected at or above limit of detection
 --: Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-32	Date Sampled: 01/29/93
Lab Number: 9302009-32B	Date Received: 02/01/93
Sample Matrix/Media: SOIL	Date Extracted: 02/01/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	0.045	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	0.095	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	0.20	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.03
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-32
Lab Number: 9302009-32B
Sample Matrix/Media: SOIL
Extraction Method: EPA 3550
Analytical Method: EPA 8080

Date Sampled: 01/29/93
Date Received: 02/01/93
Date Extracted: 02/01/93
Date Analyzed: 02/01/93

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Polychlorinated Biphenyls (PCB's) (continued)</u>			
Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u> LCL UCL
Tetrachloro-m-xylene	877-09-8	49	24 - 150
Dibutylchloroendate	1770-80-5	41	20 - 150

ND Not detected at or above limit of detection
-- Information not available or not applicable
Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93020.09

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9302009-42A	Date Received:	--
Sample Matrix/Media:	SOIL	Date Extracted:	02/01/93
Extraction Method:	EPA 3550	Date Analyzed:	02/01/93
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
<u>Organochlorine Pesticides</u>			
alpha-BHC	319-84-6	ND	0.003
gamma-BHC (Lindane)	58-89-9	ND	0.003
beta-BHC	319-85-7	ND	0.003
Heptachlor	76-44-8	ND	0.003
delta-BHC	319-86-8	ND	0.003
Aldrin	309-00-2	ND	0.003
Heptachlor epoxide	1024-57-3	ND	0.003
Endosulfan I	959-98-8	ND	0.003
4,4'-DDE	72-55-9	ND	0.003
Dieldrin	60-57-1	ND	0.003
Endrin	72-20-8	ND	0.003
4,4'-DDD	72-54-8	ND	0.003
Endosulfan II	33212-65-9	ND	0.003
4,4'-DDT	50-29-3	ND	0.003
Endrin aldehyde	7421-93-4	ND	0.003
Endosulfan sulfate	1031-07-8	ND	0.003
Methoxychlor	72-43-5	ND	0.02
Chlordane	57-74-9	ND	0.02
Toxaphene	8001-35-2	ND	0.2

Polychlorinated Biphenyls (PCB's)

Aroclor 1016	12674-11-2	ND	0.03
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ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9302009-42A	Date Received: --
Sample Matrix/Media: SOIL	Date Extracted: 02/01/93
Extraction Method: EPA 3550	Date Analyzed: 02/01/93
Analytical Method: EPA 8080	

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
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Polychlorinated Biphenyls (PCB's) (continued)

Aroclor 1221	1104-28-2	ND	0.03
Aroclor 1232	11141-16-5	ND	0.03
Aroclor 1242	53469-21-9	ND	0.03
Aroclor 1248	12672-29-6	ND	0.03
Aroclor 1254	11097-69-1	ND	0.03
Aroclor 1260	11096-82-5	ND	0.03

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>	
			LCL	UCL
Tetrachloro-m-xylene	877-09-8	70	24	150
Dibutylchloroendate	1770-80-5	73	20	150

ND Not detected at or above limit of detection
 -- Information not available or not applicable
 Results are reported on a wet weight basis, as received

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No: 93020.09

Sample Identification: 17-2
Lab Number: 9302009-02
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	10	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	71	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	33	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	12	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	85	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	81	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	40	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	4.7	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	44	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-7
Lab Number: 9302009-07
Sample Matrix/Media: SOIL

Date Sampled: 01/28/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	89	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	28	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	78	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	6.5	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	29	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-11
Lab Number: 9302009-11
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	87	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	29	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	10	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	65	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Ignitability	NI	—	Degrees F	—	02/01/93	—	SW 7.1.2
Lead	100	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.3	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	36	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
pH	8.7	—	S.U.	—	02/02/93	—	EPA 9045
Reactive Cyanide	<1	1	mg/kg	—	02/03/93	—	EPA 9010
Reactive Sulfide	<10	10	mg/kg	—	02/05/93	—	SW 7.3.4.2
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	7.8	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	30	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

NI = Not Ignitable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93020.09

Sample Identification: 17-12
Lab Number: 9302009-12
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	79	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	20	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	66	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	120	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.4	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	8.1	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-13
Lab Number: 9302009-13
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	80	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	23	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	66	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.5	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	28	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	7.9	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	150	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93020.09

Sample Identification: 17-21
Lab Number: 9302009-21
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	76	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	91	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	92	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	1.1	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	32	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	5.1	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	28	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	170	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93020.09

Sample Identification: 17-23
Lab Number: 9302009-23
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	58	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	75	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	72	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	31	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	4.8	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	0.2	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	23	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	130	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.061
Clayton Project No. 93020.09

Sample Identification: 17-30
Lab Number: 9302009-30
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	6	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	72	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.2	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.6	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	26	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	60	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	90	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.7	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	33	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	2.7	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
— Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-32
Lab Number: 9302009-32
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	2	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	75	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.3	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	8	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	69	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	110	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	0.9	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	29	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	5.2	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	25	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	140	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: 17-36
Lab Number: 9302009-36
Sample Matrix/Media: SOIL

Date Sampled: 01/29/93
Date Received: 02/01/93

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	3	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	5	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	64	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	0.4	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	7	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	130	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	65	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	1.8	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	30	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	2.5	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Thallium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Vanadium	24	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	120	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Geomatrix Consultants/ Port of Oakland

Client Reference: 2026.06I
Clayton Project No. 93020.09

Sample Identification: METHOD BLANK
Lab Number: 9302009-42
Sample Matrix/Media: SOIL

Date Sampled: --
Date Received: --

Analyte	Concentration	Detection Limit	Units	Date Prepared	Date Analyzed	Prep Method	Analysis Method
Antimony	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Arsenic	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Barium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Beryllium	<0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cadmium	<0.1	0.1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Chromium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Cobalt	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Copper	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Lead	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Mercury	<0.1	0.1	mg/kg	02/02/93	02/02/93	EPA 7471	EPA 7471
Molybdenum	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Nickel	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Reactive Cyanide	<1	1	mg/kg	--	02/03/93	--	EPA 9010
Reactive Sulfide	<10	10	mg/kg	--	02/05/93	--	SW 7.3.4.2
Selenium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Silver	<0.5	0.5	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
STLC Lead	<0.1	0.1	mg/L	02/01/93	02/04/93	CAM WET	EPA 6010
TCLP Lead	<0.1	0.1	mg/L	02/02/93	02/04/93	EPA 1311	EPA 6010
Vanadium	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010
Zinc	<1	1	mg/kg	02/02/93	02/03/93	EPA 3050	EPA 6010

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Date 2/1/93

Page 1 of 1

9302009

**REQUEST FOR CHEMICAL ANALYSIS
OF SAMPLES HELD AT CLAYTON ENVIRONMENTAL**

Berth 30
Port of Oakland
Project No. 2026.06

Due: 2/5/93



Sample Number	Sample Date	Sample Time	Chain-of-Custody No.	Analyses Requested	Comments
17-2	1/28/93	20:20	2698	total CAM 17 metals; WET-Pb; TCLP-Pb.	Homogenize entire tube before analysis
17-12	1/29/93	2:05	2698	↓	↓
17-13	1/29/93	2:40	2699		
17-21	1/29/93	9:30	2699		
17-30	1/29/93	14:20	2623		
17-36	1/29/93	22:05	2623		
17-7	1/28/93	23:05	2698	total CAM 17 metals; WET-Pb; TCLP-Pb; 8240; 8270.	Roll volatile sample first, then homogenize entire tube for other tests
17-23	1/29/93	10:23	2699	↓	↓
17-32	1/29/93	15:22	2623	total CAM 17 metals; WET-Pb; TCLP-Pb; 8080.	Homogenize entire tube before analysis.
17-11	1/29/93	1:35	2698	total CAM 17 metals; WET-Pb TCLP-Pb; RCI.	↓
Turnaround time: 4 DAYS				Results to: Elizabeth K. Wells.	

- Requested by Jamie Aitch
- B.V. Port of Oakland Directly




Chain-of-Custody Record

No. 2698

Date: 01/28/93 - 01/29/93 Page 1 of 4

Project No.: 2026.06 I			ANALYSES												REMARKS									
Samplers (Signatures): Jeffrey Hasan			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX															Additional comments
Date	Time	Sample Number																						
1/28/93	19:40	17-1																						Bill Port of Oakland directly.
	20:20	17-2																						
	21:00	17-3																						
	21:20	17-4																						
	21:50	17-5																						
	22:40	17-6																						
	23:05	17-7																						
	23:30	17-8																						
1/29/93	00:35	17-9																						
	01:20	17-10																						
	01:35	17-11																						
	02:05	17-12																						

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **12**

Relinquished by: Signature: Jeffrey Hasan Printed name: JEFFREY HASAN Company: GMX	Date: 2/1/93	Relinquished by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CEC	Date: 2/1/93	Relinquished by: Signature: Printed name: Company:	Date:	Method of shipment: Pick up at site. Laboratory comments and Log No.: 9302009
Received by: Signature: Jim Mitchell Printed name: JIM MITCHELL Company: CEC	Time: 11:00 AM	Received by: Signature: Terry Salvo Printed name: TERRY SALVO Company: C.E.C.	Time: 11:50 AM	Received by: Signature: Printed name: Company:	Time:	 Geomatrix Consultants 100 Pine St 10th Floor San Francisco, CA. 94111 (415) 434-9400

Chain-of-Custody Record

No. **2620**

Date: **01/21/93 - 01/30/93**

Page **4** of **4**

Project No.: **2026.06 I**
Samplers (Signatures):
Jeffrey Hasan

ANALYSES

REMARKS

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX							Cooled	Soil (S) or water (W)	Acidified	Number of containers
1/23/13	22:25	17-37														X	S		1
1/21/13	00:50	17-38														X	S		1
	01:20	17-31														X	S		1
	02:45	17-42														X	S		1
	02:45																		
	03:35	17-41														X	S		1

Bill Part of Oakland directly.

Turnaround time: **HOLD** Results to: **Elizabeth Wells** Total No. of containers: **5**

Relinquished by:
Signature: *Jeffrey Hasan*
Printed name: **JEFFREY HASAN**
Company: **GMX**

Date: **2/1/93**

Relinquished by:
Signature: *Jim Mitchell*
Printed name: **JIM MITCHELL**
Company: **CEC**

Date: **2/1/93**

Relinquished by:
Signature:
Printed name:
Company:

Date:

Method of shipment: **Pick up at site**
Laboratory comments and Log No.: **9302009**

Received by:
Signature: *Jim Mitchell*
Printed name: **JIM MITCHELL**
Company: **CEC**


Time: **11:00 AM**

Received by:
Signature: *Terry Salvo*
Printed name: **TERRY SALVO**
Company: **CEC**

Time: **11:50 AM 2/1/93**

Received by:
Signature:
Printed name:
Company:

Time:

 **Geometrix Consultants**
100 Pine St. 10th Floor
San Francisco, CA. 94111
(415) 434-9400

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

QUALITY ASSURANCE DATA PACKAGE

CLAYTON PROJECT NO. 93020.09

Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-23A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: 0921223-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8240
Instrument ID: 02831
Date: 02/02/93
Time: 01:16
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,1-DICHLOROETHENE	ND	0.0500	0.0510	102	0.0500	100	101	59	172	2.0	22
BENZENE	ND	0.0500	0.0510	102	0.0530	106	104	66	142	3.8	21
CHLOROBENZENE	ND	0.0500	0.0480	96	0.0500	100	98	60	133	4.1	21
TOLUENE	ND	0.0500	0.0490	98	0.0510	102	100	59	139	4.0	21
TRICHLOROETHENE	ND	0.0500	0.0500	100	0.0520	104	102	62	137	3.9	24

LCS = Laboratory Control Sample

ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit

SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-MB
Ext./Prep. Method: EPA3550
Date: 02/01/93
Analyst: GUD
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 02/02/93
Time: 17:58
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.83	55	1.88	56	56	38	107	2.7	23
1,4-Dichlorobenzene	ND	3.33	1.71	51	1.78	53	52	28	104	4.0	27
2,4-Dinitrotoluene	ND	3.33	1.93	58	2.10	63	61	28	89	8.4	47
2-Chlorophenol	ND	3.33	2.92	88	3.13	94	91	25	102	6.9	50
4-Chloro-m-cresol	ND	3.33	2.38	71	2.40	72	72	26	103	0.8	33
4-Nitrophenol	ND	3.33	1.95	59	1.79	54	56	11	114	8.6	50
Acenaphthene	ND	3.33	2.22	67	2.32	70	68	31	137	4.4	19
N-Nitrosodipropylamine	ND	3.33	1.80	54	1.99	60	57	41	126	10	38
Pentachlorophenol	ND	3.33	2.12	64	2.41	72	68	17	109	13	47
Phenol	ND	3.33	2.61	78	2.55	77	77	26	90	2.3	35
Pyrene	ND	3.33	2.36	71	2.51	75	73	35	142	6.2	36

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-07A
Ext./Prep. Method: EPA3550
Date: 02/01/93
Analyst: GUD
Std. Source: M921202-01W
Sample Matrix/Media: SDIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 02/02/93
Time: 20:13
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	2.79	84	3.03	91	87	38	107	8.2	23
1,4-Dichlorobenzene	ND	3.33	3.16	95	2.95	89	92	28	104	6.9	27
2,4-Dinitrotoluene	ND	3.33	2.11	63	2.05	62	62	28	89	2.9	47
2-Chlorophenol	ND	3.33	4.04	121	4.40	132	127*	25	102	8.5	50
4-Chloro-m-cresol	ND	3.33	3.55	107	4.27	128	117*	26	103	18	33
4-Nitrophenol	ND	3.33	1.54	46	2.00	60	53	11	114	26	50
Acenaphthene	1.40	3.33	5.95	137	5.70	129	133	31	137	4.3	19
N-Nitrosodipropylamine	ND	3.33	2.45	74	2.61	78	76	41	126	6.3	38
Pentachlorophenol	ND	3.33	2.30	69	2.70	81	75	17	109	16	47
Phenol	ND	3.33	3.65	110	4.00	120	115*	26	90	9.2	35
Pyrene	1.30	3.33	5.28	120	5.72	133	126	35	142	8.0	36

Note: 2-Chlorophenol, 4-Chloro-m-cresol and Phenol MS/MSD out of control limits due to matrix interference.

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302038-MB
Ext./Prep. Method: EPA3550
Date: 02/03/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPAB270
Instrument ID: 05138
Date: 02/04/93
Time: 00:17
Analyst: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.75	53	1.79	54	53	38	107	2.3	23
1,4-Dichlorobenzene	ND	3.33	1.76	53	1.72	52	52	28	104	2.3	27
2,4-Dinitrotoluene	ND	3.33	1.72	52	2.00	60	56	28	89	15	47
2-Chlorophenol	ND	3.33	2.95	89	2.78	83	86	25	102	5.9	50
4-Chloro-m-cresol	ND	3.33	2.97	89	2.81	84	87	26	103	5.5	33
4-Nitrophenol	ND	3.33	2.27	68	2.45	74	71	11	114	7.6	50
Acenaphthene	ND	3.33	2.21	66	2.68	80	73	31	137	19	19
N-Nitrosodipropylamine	ND	3.33	1.53	46	1.73	52	49	41	126	12	38
Pentachlorophenol	ND	3.33	2.75	83	2.83	85	84	17	109	2.9	47
Phenol	ND	3.33	2.78	83	2.85	86	85	26	90	2.5	35
Pyrene	ND	3.33	2.43	73	2.49	75	74	35	142	2.4	36

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Quality Assurance Results Summary
for
Clayton Project No. 92020.09

Clayton Lab Number: 9302038-05A
Ext./Prep. Method: EPA3550
Date: 02/03/93
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 02/04/93
Time: 03:16
Analysis: AC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
1,2,4-Trichlorobenzene	ND	3.33	1.95	59	2.08	62	61	38	107	6.5	23
1,4-Dichlorobenzene	ND	3.33	2.04	61	2.55	77	69	28	104	22	27
2,4-Dinitrotoluene	ND	3.33	1.26	38	1.34	40	39	28	89	6.2	47
2-Chlorophenol	ND	3.33	3.15	95	3.69	111	103*	25	102	16	50
4-Chloro-m-cresol	ND	3.33	2.85	86	3.03	91	88	26	103	6.1	33
4-Nitrophenol	ND	3.33	0.730	22	0.830	25	23	11	114	13	50
Acenaphthene	1.17	3.33	4.06	87	4.18	90	89	31	137	2.9	19
N-Nitrosodipropylamine	ND	3.33	1.95	59	2.11	63	61	41	126	7.9	38
Pentachlorophenol	ND	3.33	2.03	61	2.13	64	62	17	109	4.8	47
Phenol	ND	3.33	3.05	92	3.06	92	92*	26	90	0.3	35
Pyrene	0.920	3.33	3.78	86	3.92	90	88	35	142	3.6	36

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-MB
Ext./Prep. Method: EPA3550
Date: 02/01/93
Analyst: LC
Std. Source: 6930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 02/02/93
Time: 05:46
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS	Matrix Spike	MSD	Average	LCL	UCL	RPD	UCL
			Spike	Result	Recovery (%)	Duplicate Result	Recovery (%)	Recovery (% R)	(% R)	(% R)	(%)	(%RPD)
4,4'-DDT	ND	0.0400	0.0267	67	0.0233	58	63	32	120	14	50	
ALDRIN	ND	0.0400	0.0289	72	0.0276	69	71	34	132	4.6	43	
DIELDRIN	ND	0.0400	0.0306	77	0.0290	73	75	31	134	5.4	38	
ENDRIN	ND	0.0400	0.0342	86	0.0336	84	85	42	139	1.8	45	
GAMMA-BHC (LINDANE)	ND	0.0400	0.0287	72	0.0283	71	71	46	127	1.4	50	
HEPTACHLOR	ND	0.0400	0.0274	69	0.0272	68	68	35	130	0.7	31	

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-32A
Ext./Prep. Method: EPA3550
Date: 02/02/93
Analyst: LC
Std. Source: 6930105-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 02/02/93
Time: 21:12
Analyst: LC
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
4,4'-DDT	0.195	0.0400	0.230	88	0.216	53	70	32	120	6.3	50
ALDRIN	ND	0.0400	0.0210	53	0.0220	55	54	34	132	4.7	43
DIELDRIN	ND	0.0400	0.0180	45	0.0200	50	48	31	134	11	38
ENDRIN	ND	0.0400	0.0220	55	0.0200	50	53	42	139	9.5	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0290	73	0.0320	80	76	46	127	9.8	50
HEPTACHLOR	ND	0.0400	0.0205	51	0.0196	49	50	35	130	4.5	31

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-11A
 Exl./Prep. Method: EPA 3050
 Date: 02/02/93
 Analyst: JSL
 Std. Source: VHG 2-1599
 Sample Matrix/Media: SOIL

Analytical Method: EPA6010
 Instrument ID: 03891
 Date: 02/03/93
 Time: 11:24
 Analyst: DS
 Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ANTIMONY	2.50	50.0	45.4	86	45.6	86	86	54	123	0.4	25
ARSENIC	5.50	50.0	52.3	94	51.3	92	93	72	115	1.9	25
BARIUM	87.3	50.0	130	85	139	103	94	46	155	6.7	25
BERYLLIUM	0.150	50.0	49.8	99	48.7	97	98	78	112	2.2	25
CADMIUM	0.250	50.0	50.0	100	49.4	98	99	80	111	1.2	25
CHROMIUM	28.7	50.0	78.7	100	75.8	94	97	60	135	3.8	25
COBALT	9.77	50.0	57.7	96	57.6	96	96	72	114	0.2	25
COPPER	65.1	50.0	108	86	105	80	83	72	127	2.8	25
LEAD	103	50.0	147	88	152	98	93	61	124	3.3	25
MOLYBDENUM	0.760	54.0	49.5	90	48.5	88	89	69	119	2.0	25
NICKEL	35.8	50.0	80.6	90	80.1	89	89	54	132	0.6	25
SELENIUM	ND	50.0	48.1	96	47.8	96	96	63	117	0.6	25
SILVER	ND	50.0	51.3	103	50.5	101	102	79	118	1.6	25
THALLIUM	ND	50.0	39.2	78	38.6	77	78	63	115	1.5	25
VANADIUM	29.6	50.0	78.3	97	79.8	100	99	70	122	1.9	25
ZINC	143	50.0	191	96	205	124	110	64	133	7.1	25

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302017-05A
Ext./Prep. Method: EPA9010
Date: 02/02/93
Analyst: TK
Std. Source: BAKER3080-1
Sample Matrix/Media: SOIL

Analytical Method: EPA9010
Instrument ID: 07487
Date: 02/03/93
Time: 09:00
Analyst: TK
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
CYANIDE	0.423	10.0	10.7	103	10.2	98	100	58	135	5.3	25

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-02A
Ext./Prep. Method: EPA7471
Date: 02/02/93
Analyst: JSL
Std. Source: A92122801W
Sample Matrix/Media: SOIL

Analytical Method: EPA7471
Instrument ID: 05583
Date: 02/02/93
Time: 1:
Analyst: JSL
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
			Spike	Result								
MERCURY	0.730	1.00	1.86	113	1.73	100	107	72	128	7.2	25	

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-02A
Ext./Prep. Method: EPA 3010
Date: 02/04/93
Analyst: RAH
Std. Source: TCLP 921201
Sample Matrix/Media: TCLP

Analytical Method: EPA6010
Instrument ID: 03891
Date: 02/04/93
Time: 16:51
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	ND	5.00	5.03	101	5.00	100	100	75	125	0.7	20

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302009-02A
Ext./Prep. Method: EPA 3010
Date: 02/04/93
Analyst: RAH
Std. Source: VHG 2-1599
Sample Matrix/Media: STLC

Analytical Method: EPA6010
Instrument ID: 03891
Date: 02/04/93
Time: 15:07
Analyst: DS
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
LEAD	4.69	10.0	14.1	94	13.8	92	93	75	125	1.9	20

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Quality Assurance Results Summary
for
Clayton Project No. 93020.09

Clayton Lab Number: 9302042-01A
Ext./Prep. Method: EPA7.3.4.2
Date: 02/04/93
Analyst: HYW
Std. Source: BAKER #617700
Sample Matrix/Media: SOIL

Analytical Method: EPA7.3.4.2
Instrument ID: 00008
Date: 02/05/93
Time: 1:
Analyst: HYW
Units: MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
REACTIVE SULFIDE	ND	272	270	99	265	97	98	61	111	1.9	25

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