Western Operations

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P.O. Box 9019
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Clayton
ENVIRONMENTAL
CONSULTANTS

December 17, 1992

Mr. Rene Boongaling
SUPERIOR ANALYTICAL LABORATORY
1555 Burke Street, Unit 1
San Francisco, CA 94124

Client Ref. 55874
Clayton Project No. 92121.51

Dear Mr. Boongaling:

Attached is our analytical laboratory report for the samples received on December 10, 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,

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

RHP/caa
Attachments

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	55874-1	Date Sampled:	12/08/92
Lab Number:	9212151-01A	Date Received:	12/10/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	55874-1	Date Sampled:	12/08/92
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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	0.03
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	82	24 -	150
Dibutylchlorendate	1770-80-5	87	20 -	150

ND Not detected at or above limit of detection
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Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212151-03A	Date Received:	--
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)
Organochlorine Pesticides			
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

ND Not detected at or above limit of detection
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Results of Analysis
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Superior Analytical Laboratory

Client Reference: 55874
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Sample Identification:	METHOD BLANK	Date Sampled:	--
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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	0.03
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	82	24 -	150
Dibutylchlorendate	1770-80-5	90	20 -	150

ND Not detected at or above limit of detection
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Clayton Project No. 92121.51

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Lab Number:	9212151-01A	Date Received:	12/10/92
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)
Acid Extractables			
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*
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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)
Base/Neutral Extractables (continued)			
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
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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)
Base/Neutral Extractables (continued)			
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

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Results of Analysis
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Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	55874-2	Date Sampled:	12/08/92
Lab Number:	9212151-02A	Date Received:	12/10/92
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)
Base/Neutral Extractables (continued)			
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
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Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	55874-2	Date Sampled:	12/08/92
Lab Number:	9212151-02A	Date Received:	12/10/92
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)
Acid Extractables			
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

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Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	55	25	121
Phenol-d6	13127-88-3	67	24	113
Nitrobenzene-d5	4165-60-0	69	23	120
2-Fluorobiphenyl	321-60-8	79	30	115
2,4,6-Tribromophenol	118-79-6	71	19	122
Terphenyl-d14	98904-43-9	71	18	137

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Client Reference: 55874
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Sample Identification:	55874-2	Date Sampled:	12/08/92
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Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

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

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Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	61	25 -	121
Phenol-d6	13127-88-3	72	24 -	113
Nitrobenzene-d5	4165-60-0	71	23 -	120
2-Fluorobiphenyl	321-60-8	82	30 -	115
2,4,6-Tribromophenol	118-79-6	62	19 -	122
Terphenyl-d14	98904-43-9	70	18 -	137

ND Not detected at or above limit of detection
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Extraction Method:	EPA 3550	Date Analyzed:	12/15/92
Analytical Method:	EPA 8270		

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

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

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Clayton Project No. 92121.51

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212151-03A	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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55874
Clayton Project No. 92121.51

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212151-03A	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)
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

Surrogates		Recovery (%)	QC Limits (%) 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

Quality Assurance Results Summary
for
Clayton Project No. 92121.51

Clayton Lab Number:	9212151-01A	Analytical Method:	EPA8080
Ext./Prep. Method:	EPA3550	Instrument ID:	02933
Date:	12/14/92	Date:	12/15/92
Analyst:	CON	Time:	20:29
Std. Source:	G921201-04W	Analyst:	LC
Sample Matrix/Media:	SOIL	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	0.0330	83	81	32	120	3.1	50
ALDRIN	ND	0.0400	0.0330	83	0.0340	85	84	34	132	3.0	43
DIELDRIN	ND	0.0400	0.0320	80	0.0320	80	80	31	134	0.0	38
ENDRIN	ND	0.0400	0.0350	88	0.0350	88	88	42	139	0.0	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0330	83	0.0340	85	84	46	127	3.0	50
HEPTACHLOR	ND	0.0400	0.0400	100	0.0400	100	100	35	130	0.0	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. 92121.51

Clayton Lab Number: 9212109-MB
Ext./Prep. Method: EPA3550
Date: 12/14/92
Analyst: CON
Std. Source M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 12/15/92
Time: 11:19
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)
1,2,4-Trichlorobenzene	ND	3.33	2.03	61	2.10	63	62	38	107	3.4	23
1,4-Dichlorobenzene	ND	3.33	2.06	62	1.97	59	61	28	104	4.5	27
2,4-Dinitrotoluene	ND	3.33	1.99	60	1.86	56	58	28	89	6.8	47
2-Chlorophenol	ND	3.33	2.36	71	2.33	70	70	25	102	1.3	50
4-Chloro-m-cresol	ND	3.33	2.47	74	2.53	76	75	26	103	2.4	33
4-Nitrophenol	ND	3.33	2.43	73	2.16	65	69	11	114	12	50
Acenaphthene	ND	3.33	2.70	81	2.40	72	77	31	137	12	19
N-Nitrosodipropylamine	ND	3.33	1.80	54	1.83	55	55	41	126	1.7	38
Pentachlorophenol	ND	3.33	2.19	66	2.76	83	74	17	109	23	47
Phenol	ND	3.33	1.74	52	1.66	50	51	26	90	4.7	35
Pyrene	ND	3.33	2.45	74	2.36	71	72	35	142	3.7	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. 92121.51

Clayton Lab Number:	9212109-06A	Analytical Method:	EPA8270
Ext./Prep. Method:	EPA3550	Instrument ID:	05138
Date:	12/14/92	Date:	12/15/92
Analyst:	CON	Time:	16:03
Std. Source:	M921202-01W	Analyst:	AC
Sample Matrix/Media:	SOIL	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	2.80	84	3.07	92	88	38	107	9.2	23
1,4-Dichlorobenzene	ND	3.33	2.96	89	2.96	89	89	28	104	0.0	27
2,4-Dinitrotoluene	ND	3.33	1.52	46	1.68	50	48	28	89	10	47
2-Chlorophenol	ND	3.33	2.78	83	2.79	84	84	25	102	0.4	50
4-Chloro-m-cresol	ND	3.33	2.33	70	2.76	83	76	26	103	17	33
* 4-Nitrophenol	ND	3.33	0.170	5	0.200	6	6*	11	114	16	50
Acenaphthene	3.40	3.33	5.94	76	6 11	81	79	31	137	2.8	19
N-Nitrosodipropylamine	ND	3.33	2.20	66	2.50	75	71	41	126	13	38
* Pentachlorophenol	ND	3.33	0.00010	0	0.00010	0	0*	17	109	0.0	47
Phenol	ND	3.33	2.35	71	2.54	76	73	26	90	7.8	35
Pyrene	2.30	3.33	5.22	88	5.63	100	94	35	142	7.6	36

* Note: 4-Nitrophenol and Pentachlorophenol spike result out of control limits due to matrix interferences

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.

Section I

Chain of Custody and Analysis Request

page 1 of 1

From: Superior Precision Analytical, Inc.
1555 Burke St. Unit I
San Francisco, CA 92124
Phone No. (415) 647-2081 Fax No. (415) 821-7123
Contact: RENE BOURGEALIUS
P.O. No. 93574

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs (5 Day)
48 Hrs 10 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553

Work Subcontracted to: CLAYTON

Section II: Analysis Request

	Laboratory Sample Identification	S = Soil A = Air W = Water Matrix	CAM17	Metals:	418.1	8270	8080 (pest. and PCB's)					Client Sample Identification	Number of Containers	Preservative (yes or no)			Sampling Remarks
	9212151																Chevron ☐ Non-Chevron ☒ **Please Fax Results**
O1A	93574-1	S				X	X						1	N			FAX RESULTS TO 925-[illegible]
O2A	2 -2	S				X							1	N			SUPERIOR.
	3																INVOICE SUPERIOR
	4																
	5																
	6																
	7																
	8																Rec'd @ 12.5nd Agent
	9																Jars Cond OK
	10																
	11																
	12																D/H CLAYTON COURIER THURS 12/10/92 Afternoon

Relinquished by R. Bourgeaulius	Date/Time 12/9/92 5:00 PM	Received by Tracy A Bullock	Date/Time 12/10/92 6:10 PM	Lab please initial the following:
Organization SUPERIOR		Organization Clayton ENV.		Samples Stored in Ice TB
Relinquished by	Date/Time	Received by	Date/Time	Appropriate Containers TB
Organization		Organization		Samples Preserved
Relinquished by	Date/Time	Received by	Date/Time	VOAs without Headspace
Organization		Organization		Comments

Section I

Chain of Custody and Analysis Request

page __ of __

Consultant: LAW/CRANDALL
Address: 4000 Civic Center Drive
San Rafael CA 94903
Phone No. 415 499 1422 Fax No. 415 499 8415
Project Manager: Susan Gobrey
Alternate Contact: Andrew Mura
Project No. 2123-20663-0001 P.O. No.

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs 48 Hrs
Normal 5 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553
Martinez 1 (510) 229-1512 Martinez 2 (510) 229-0166
San Francisco (415) 647-2081

Sampler: A.T. Mura
Regulatory Agency:

Section II: Analysis Request

Laboratory Sample Identification	Matrix (S = Soil A = Air W = Water)	mod 8015 - Gas	mod 8015 - BTEX	mod 8015 - Diesel	8010	8240	GCAM17	TCLP Metals:	Metals: Total Lead	418.1 - TPH by IR	O & G	BCBs + Pesticides	8270	CAM 17 Metals	Date Sampled	Time Sampled	Number of Containers	Preservative (yes or no)	Sampling Remarks
9212151																			
1 SB7	S	X	X	X		X					X	X	X		12/8	11:30		N	Bio-remediation
2 SB8	S	X	X	X			X				X		X						X Underground storage tank
3 MW1	W	X	X	X					X										Monitoring
4 MW2	W	X	X	X					X										Recent Contamination
5 MW3	W	X	X	X					X										X Unknown Compounds
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Please initial:
Samples stored in ice RB
Appropriate containers
Preserved
VOAs w/out headspace
Comments: Do not run q/BTXE or Diesel

Relinquished by: Andrew T. Mura	Date/Time: 12/8/92 8:30 pm	Received by:	Date/Time:	Lab please initial the following:
Organization: Law/Crandall		Organization:		Samples Stored in Ice
Relinquished by:	Date/Time:	Received by:	Date/Time:	Appropriate Containers
Organization:		Organization:		Samples Preserved
Relinquished by:	Date/Time:	Received by: Cecilia Joaquin	Date/Time: 12/8/92 8:30 pm	VOAs without Headspace
Organization:		Organization: Superior Pre		Comments

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55864
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR TOTAL PETROLEUM OIL AND GREASE
by Method 5520F (formerly 503E)

LAB #	Sample Identification	Concentration (mg/L) Total Petroleum Oil & Grease
1	HP1	ND<5

mg/L - parts per million (ppm)

Minimum Detection Limit for oil & grease in Water: 5mg/L

QAQC Summary:
MS/MSD Average Recovery = 81%
Duplicate RPD = 2%

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 55864
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(ug/L) Benzene	Toluene	Ethyl Benzene	Xylenes
1	HP1	ND<0.3	0.3	ND<0.3	ND<0.3

ug/L - parts per billion (ppb)

Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: %Diff 8020 = <15%
MS/MSD Average Recovery = 94%: Duplicate RPD = 4%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Manager

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 55864
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (ug/L) Gasoline Range
1	HP1	ND<50

ug/L - parts per billion (ppb)

Method Detection Limit for Gasoline in Water: 50 ug/L

QAQC Summary:

Daily Standard run at 2mg/L: %Diff Gasoline = <15
MS/MSD Recovery = 93%: Duplicate RPD = 5%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Manager

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55864
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/16/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (ug/L) Diesel Range
1	HP1	ND<50

ug/L - parts per billion (ppb)

Minimum Detection Limit for Diesel in Water: 50ug/L

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 67%: Duplicate RPD = 9%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 55864-1
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/11/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123-20663-0001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: HP1

Compound	MDL	ug/L	Compound	MDL	ug/L
Chloromethane	10	ND	Cis-1,3-Dichloropropene	3	ND
Bromomethane	10	ND	Trichloroethene	3	ND
Vinyl Chloride	10	ND	Dibromochloromethane	3	ND
Chloroethane	10	ND	1,1,2-Trichloroethane	3	ND
Methylene Chloride	10	ND	Benzene	1	ND
Acetone	10	ND	Trans-1,3-Dichloropropene	3	ND
Carbon Disulfide	3	ND	2-Chloroethyl vinyl ether	3	ND
·ichlorofluoromethane	3	ND	Bromoform	3	ND
1-Dichloroethene	3	ND	4-Methyl-2-Pentanone	10	ND
1,1-Dichloroethane	3	ND	2-Hexanone	10	ND
trans-1,2-Dichloroethene	3	ND	Tetrachloroethene	3	ND
Chloroform	3	ND	1,1,2,2-Tetrachloroethane	3	ND
1,2-Dichloroethane	1	ND	Toluene	3	ND
2-Butanone	20	ND	Chlorobenzene	3	ND
1,1,1-Trichloroethane	3	ND	Ethylbenzene	3	ND
Carbon Tetrachloride	3	ND	Styrene	3	ND
Vinyl Acetate	10	ND	Total Xylenes	3	ND
Bromodichloromethane	3	ND	1,3-Dichlorobenzene	3	ND
1,2-Dichloropropane	3	ND	1,4-Dichlorobenzene	3	ND
cis-1,2-Dichloroethene	3	ND	1,2-Dichlorobenzene	3	ND

ug/L = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS water
1,2-DCA-d4.....	97%	76-114 %
Toluene-d8.....	106%	88-110 %
Bromofluorobenzene.....	100%	86-115 %

comments:

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55864
CLIENT: LAW/CRANDALL, INC.
CLIENT PROJECT NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

Following is a list of Cross referenced Lab Numbers and Sample I.D.'s for referring to the following reports.

Superior Lab Number	Subbed Lab Number	Customer Sample Identificatio
55864- 1	9212101-01A	HP1

ubbed to: CLAYTON ENVIRONMENTAL CONSULTANTS DOHS#1196.

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 87364
CLIENT: Law/Crandall
CLIENT JOB NO.: 2123-20663-0001

DATE RECEIVED:12/07/92
DATE REPORTED:12/12/92
DATE SAMPLED :

ANALYSIS FOR TOTAL NICKEL
by SW-846 METHOD 6010

LAB #	Sample Identification	Concentration(mg/L) Total Nickel
1	HP1	ND<0.1

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 85%
Duplicate RPD : 2%

Richard Srna, Ph.D.
Laboratory Manager

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 87364
CLIENT: Law/Crandall
CLIENT JOB NO.: 2123-20663-0001

DATE RECEIVED:12/07/92
DATE REPORTED:12/12/92

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD & ZINC
by EPA SW-846 Method 6010

LAB #	Sample Identification	Concentration (mg/L) Cadmium	Chromium	Lead	Zinc
1	HP1	ND<0.05	ND<0.05	ND<0.1	ND<0.05

mg/L - parts per million (ppm)

Method Detection Limit for Cadmium in Water: 0.05 mg/L
Method Detection Limit for Chromium in Water: 0.05 mg/L
Method Detection Limit for Lead in Water: 0.1 mg/L
Method Detection Limit for Zinc in Water: 0.05 mg/L

QAQC Summary: MS/MSD Average Recovery : 92%
Duplicate RPD : 2%

Richard Srna, Ph.D.
Laboratory Manager

CHAIN OF CUSTODY RECORD

55864

BCA Log Number _____

CRANDALL	Project or PO# 2123-20663-0001	
100 Civic Center Dr. Suite 305	Phone # 415 499 1422	
State Zip San Rafael, CA 94903	Report attention SUSAN GARRY	

Date sampled	Time sampled	Type* See key below	Sampled by ATM / Sample description	Number of containers	TPH/C + BTEX	TPH/D	Semi Volatile Organics	Pesticides + PCB's	Volatile Organics	CD, CR, Pb, ZN, Ni	O+G (5520 (D+F))	Hazardous sample Special handling required	Remarks
12/7/92	3:30	GW	HP1	3	X								5 Day Turnaround
12/7/92	3:30	GW	HP1	1		X							
12/7/92	3:30	GW	HP1	1			X						
12/7/92	3:30	GW	HP1	1				X					
12/7/92	3:30	GW	HP1	3					X				
12/7/92	3:30	GW	HP1	1						X			
12/7/92	3:30	GW	HP1	1							X		

Please initial:
Samples Stored in ice: _____
Appropriate containers: _____
Samples preserved: _____
VOA's without headspace: _____
Comments: _____

	Signature	Print Name	Company	Date	Time
Relinquished by	Andrew T. Mulka	Andrew T. Mulka	Law/Crandall	12/7/92	5:30
Received by	Doug Stanley	DOUG STANLEY	AERO/DEL	12/7/92	5:30
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory		KIEHLE	SPA	12/7/92	8:00

ANALYTICAL
5 Powell Street, Emeryville, CA 94608 (510) 428-2300

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: WW—Wastewater SU—Surface Water SO—Soil SL—Sludge PE—Petroleum OT—Other NA—Nonaqueous GW—Groundwater AQ—Aqueous

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

Mr. Rich Kiehle
SUPERIOR ANALYTICAL LABORATORY
1555 Burke Street, Unit 1
San Francisco, CA 94124

Client Ref. 55864
Clayton Project No. 92121.01

Dear Mr. Kiehle:

Attached is our analytical laboratory report for the samples received on December 8, 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,

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

RHP/caa
Attachments

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01A	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Acid Extractables			
Phenol	108-95-2	ND	5
2-chlorophenol	95-57-8	ND	5
2-methyl phenol	95-48-7	ND	5
4-methyl phenol	106-44-5	ND	5
2-nitrophenol	88-75-5	ND	5
2,4-dimethylphenol	105-67-9	ND	5
2,4-dichlorophenol	120-83-2	ND	5
4-chloro-3-methylphenol	59-50-7	ND	5
2,4,5-trichlorophenol	95-95-4	ND	5
2,4,6-trichlorophenol	88-06-2	ND	5
2,4-dinitrophenol	51-28-5	ND	20
4-nitrophenol	100-02-7	ND	20
2-methyl-4,6-dinitrophenol	534-52-1	ND	20
Pentachlorophenol	87-86-5	ND	20
Base/Neutral Extractables			
Bis(2-chloroethyl)ether	111-44-4	ND	5
1,3-dichlorobenzene	541-73-7	ND	5
1,4-dichlorobenzene	106-46-7	ND	5
Benzyl alcohol	100-51-6	ND	10
1,2-dichlorobenzene	95-50-1	ND	5
Bis-(2-chloroisopropyl)ether	108-60-1	ND	5

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

* Note: Tentative results reported for acid extractables due to low acid surrogate recoveries.

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01A	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

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

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

* Note: Tentative results reported for acid extractables due to low acid surrogate recoveries.

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01A	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Base/Neutral Extractables (continued)			
2,4-dinitrotoluene	121-14-2	ND	5
2,6-dinitrotoluene	606-20-2	ND	5
Diethyl phthalate	84-66-2	ND	5
4-chlorophenylphenylether	7005-72-3	ND	5
Fluorene	86-73-7	ND	5
N-nitrosodiphenylamine	86-30-6	ND	5
4-bromophenylphenylether	101-55-3	ND	5
Hexachlorobenzene	118-74-1	ND	5
Phenanthrene	85-01-8	ND	5
Anthracene	120-12-7	ND	5
Di-n-butylphthalate	84-74-2	ND	5
Fluoranthene	206-44-2	ND	5
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	ND	5
Benzylbutylphthalate	85-68-7	ND	5
3,3'-dichlorobenzidine	91-94-1	ND	40
Benzo(a)anthracene	56-55-3	ND	5
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	5
Di-n-octylphthalate	117-84-0	ND	5

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

* Note: Tentative results reported for acid extractables due to low acid surrogate recoveries.

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01A	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	2*	21	100
Phenol-d6	13127-88-3	0*	10	94
Nitrobenzene-d5	4165-60-0	85	35	114
2-Fluorobiphenyl	321-60-8	92	43	116
2,4,6-Tribromophenol	118-79-6	27	10	123
Terphenyl-d14	--	83	33	141

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

* Note: Tentative results reported for acid extractables due to low acid surrogate recoveries.

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Acid Extractables			
Phenol	108-95-2	ND	5
2-chlorophenol	95-57-8	ND	5
2-methyl phenol	95-48-7	ND	5
4-methyl phenol	106-44-5	ND	5
2-nitrophenol	88-75-5	ND	5
2,4-dimethylphenol	105-67-9	ND	5
2,4-dichlorophenol	120-83-2	ND	5
4-chloro-3-methylphenol	59-50-7	ND	5
2,4,5-trichlorophenol	95-95-4	ND	5
2,4,6-trichlorophenol	88-06-2	ND	5
2,4-dinitrophenol	51-28-5	ND	20
4-nitrophenol	100-02-7	ND	20
2-methyl-4,6-dinitrophenol	534-52-1	ND	20
Pentachlorophenol	87-86-5	ND	20
Base/Neutral Extractables			
Bis(2-chloroethyl)ether	111-44-4	ND	5
1,3-dichlorobenzene	541-73-7	ND	5
1,4-dichlorobenzene	106-46-7	ND	5
Benzyl alcohol	100-51-6	ND	10
1,2-dichlorobenzene	95-50-1	ND	5
Bis-(2-chloroisopropyl)ether	108-60-1	ND	5

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

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

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Base/Neutral Extractables (continued)			
2,4-dinitrotoluene	121-14-2	ND	5
2,6-dinitrotoluene	606-20-2	ND	5
Diethyl phthalate	84-66-2	ND	5
4-chlorophenylphenylether	7005-72-3	ND	5
Fluorene	86-73-7	ND	5
N-nitrosodiphenylamine	86-30-6	ND	5
4-bromophenylphenylether	101-55-3	ND	5
Hexachlorobenzene	118-74-1	ND	5
Phenanthrene	85-01-8	ND	5
Anthracene	120-12-7	ND	5
Di-n-butylphthalate	84-74-2	ND	5
Fluoranthene	206-44-2	ND	5
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	ND	5
Benzylbutylphthalate	85-68-7	ND	5
3,3'-dichlorobenzidine	91-94-1	ND	40
Benzo(a)anthracene	56-55-3	ND	5
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	5
Di-n-octylphthalate	117-84-0	ND	5

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/10/92
Extraction Method:	EPA 3510	Date Analyzed:	12/12/92
Analytical Method:	EPA 8270		

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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	55	21	100
Phenol-d6	13127-88-3	45	10	94
Nitrobenzene-d5	4165-60-0	81	35	114
2-Fluorobiphenyl	321-60-8	79	43	116
2,4,6-Tribromophenol	118-79-6	92	10	123
Terphenyl-d14	--	88	33	141

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01B	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/08/92
Extraction Method:	EPA 3510	Date Analyzed:	12/09/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Organochlorine Pesticides			
alpha-BHC	319-84-6	ND	0.01
gamma-BHC (Lindane)	58-89-9	ND	0.01
beta-BHC	319-85-7	ND	0.01
Heptachlor	76-44-8	ND	0.01
delta-BHC	319-86-8	ND	0.01
Aldrin	309-00-2	ND	0.01
Heptachlor epoxide	1024-57-3	ND	0.01
Endosulfan I	959-98-8	ND	0.01
4,4'-DDE	72-55-9	ND	0.01
Dieldrin	60-57-1	ND	0.01
Endrin	72-20-8	ND	0.01
4,4'-DDD	72-54-8	ND	0.01
Endosulfan II	33212-65-9	ND	0.01
4,4'-DDT	50-29-3	ND	0.01
Endrin aldehyde	7421-93-4	ND	0.01
Endosulfan sulfate	1031-07-8	ND	0.01
Methoxychlor	72-43-5	ND	0.05
Chlordane	57-74-9	ND	0.05
Toxaphene	8001-35-2	ND	1
Polychlorinated Biphenyls (PCB's)			
Aroclor 1016	12674-11-2	ND	0.5

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	55864-1	Date Sampled:	12/07/92
Lab Number:	9212101-01B	Date Received:	12/08/92
Sample Matrix/Media:	WATER	Date Extracted:	12/08/92
Extraction Method:	EPA 3510	Date Analyzed:	12/09/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Polychlorinated Biphenyls (PCB's) (continued)			
Aroclor 1221	1104-28-2	ND	0.5
Aroclor 1232	11141-16-5	ND	0.5
Aroclor 1242	53469-21-9	ND	0.5
Aroclor 1248	12672-29-6	ND	0.5
Aroclor 1254	11097-69-1	ND	0.5
Aroclor 1260	11096-82-5	ND	0.5

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	79	24 -	150
Dibutylchlorendate	1770-80-5	59	24 -	154

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/08/92
Extraction Method:	EPA 3510	Date Analyzed:	12/09/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Organochlorine Pesticides			
alpha-BHC	319-84-6	ND	0.01
gamma-BHC (Lindane)	58-89-9	ND	0.01
beta-BHC	319-85-7	ND	0.01
Heptachlor	76-44-8	ND	0.01
delta-BHC	319-86-8	ND	0.01
Aldrin	309-00-2	ND	0.01
Heptachlor epoxide	1024-57-3	ND	0.01
Endosulfan I	959-98-8	ND	0.01
4,4'-DDE	72-55-9	ND	0.01
Dieldrin	60-57-1	ND	0.01
Endrin	72-20-8	ND	0.01
4,4'-DDD	72-54-8	ND	0.01
Endosulfan II	33212-65-9	ND	0.01
4,4'-DDT	50-29-3	ND	0.01
Endrin aldehyde	7421-93-4	ND	0.01
Endosulfan sulfate	1031-07-8	ND	0.01
Methoxychlor	72-43-5	ND	0.05
Chlordane	57-74-9	ND	0.05
Toxaphene	8001-35-2	ND	1
Polychlorinated Biphenyls (PCB's)			
Aroclor 1016	12674-11-2	ND	0.5

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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55864
Clayton Project No. 92121.01

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212101-02A	Date Received:	--
Sample Matrix/Media:	WATER	Date Extracted:	12/08/92
Extraction Method:	EPA 3510	Date Analyzed:	12/09/92
Analytical Method:	EPA 8080		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
Polychlorinated Biphenyls (PCB's) (continued)			
Aroclor 1221	1104-28-2	ND	0.5
Aroclor 1232	11141-16-5	ND	0.5
Aroclor 1242	53469-21-9	ND	0.5
Aroclor 1248	12672-29-6	ND	0.5
Aroclor 1254	11097-69-1	ND	0.5
Aroclor 1260	11096-82-5	ND	0.5

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	70	24 -	150
Dibutylchlorendate	1770-80-5	95	24 -	154

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

Quality Assurance Results Summary
for
Clayton Project No. 92121.01

Clayton Lab Number: 9212121-MB
Ext./Prep. Method: EPA3510
Date: 12/10/92
Analyst: CON
Std. Source: M921202-01W
Sample Matrix/Media: WATER

Analytical Method: EPA625_8270
Instrument ID: 05138
Date: 12/12/92
Time: 16:05
Analyst: AC
Units: UG/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)
1,2,4-Trichlorobenzene	ND	100	61.0	61	60.0	60	61	39	98	1.7	28
1,4-Dichlorobenzene	ND	100	56.0	56	59.0	59	58	36	97	5.2	28
2,4-Dinitrotoluene	ND	100	59.0	59	62.0	62	61	24	96	5.0	38
2-Chlorophenol	ND	100	69.0	69	68.0	68	69	27	123	1.5	40
4-Chloro-m-cresol	ND	100	69.0	69	69.0	69	69	23	97	0.0	42
4-Nitrophenol	ND	100	26.0	26	35.0	35	31	10	80	30	50
Acenaphthene	ND	100	77.0	77	85.0	85	81	46	118	9.9	31
N-Nitrosodipropylamine	ND	100	65.0	65	68.0	68	67	41	116	4.5	38
Pentachlorophenol	ND	100	52.0	52	67.0	67	60	9	103	25	50
Phenol	ND	100	35.0	35	37.0	37	36	12	89	5.6	42
Pyrene	ND	100	74.0	74	72.0	72	73	26	127	2.7	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. 92121.01

Clayton Lab Number:	9212028-MB	Analytical Method:	EPA8080
Ext./Prep. Method:	EPA3510	Instrument ID:	02933
Date:	12/09/92	Date:	12/09/92
Analyst:	GAU	Time:	21:07
Std. Source:	G921201-04W	Analyst:	LC
Sample Matrix/Media:	WATER	Units:	UG/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)
4,4'-DDT	ND	0.200	0.130	65	0.160	80	73	40	140	21	30
ALDRIN	ND	0.200	0.180	90	0.190	95	93	40	120	5.4	30
DIELDRIN	ND	0.200	0.150	75	0.160	80	78	52	126	6.5	30
ENDRIN	ND	0.200	0.160	80	0.170	85	83	56	121	6.1	30
GAMMA-BHC (LINDANE)	ND	0.200	0.160	80	0.170	85	83	56	123	6.1	30
HEPTACLOR	ND	0.200	0.190	95	0.180	90	93	40	131	5.4	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.

12101

Section I

Chain of Custody and Analysis Request

page__of__

From: Superior Precision Analytical, Inc.
1555 Burke St. Unit I
San Francisco, CA 92124
Phone No. (415) 647-2081 Fax No. (415) 821-7123
Contact: 55864
P.O. No. KK

Turn Around Time (circle one):
Same Day 72 Hrs
24 Hrs (5 Day) per Lester
48 Hrs 10 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553

Work Subcontracted to: Clayton

Section II: Analysis Request

	Laboratory Sample Identification	S = Soil A = Air W = Water Matrix	CAM17	Metals:	418.1	8270	8080 (pest. and PCB's)					Client Sample Identification	Number of Containers	Preservative (yes or no)			Sampling Remarks: Chevron / Non-Chevron **Please Fax Results**
1	55864-1	water				X	X					HP1					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Relinquished by: [signature]	Date/Time: 12/7/92 10P	Received by: Jenny Lopez C.E.C.	Date/Time: 12/8/92 1:20p	Lab please initial the following: Samples Stored in Ice: OK
Relinquished by:	Date/Time:	Received by:	Date/Time:	Appropriate Containers: N/A
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Preserved: N/A
				VOAs without Headspace: N/A
				Comments: Rec'd 2 TLd

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55866
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	SB6@5'	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 88%: Duplicate RPD = 1%

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55866
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED:12/07/92
DATE REPORTED:12/15/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(mg/kg) Benzene	Toluene	Ethyl Benzene	Xylenes
1	SB6@5'	ND<.003	ND<.003	ND<.003	ND<.003

ug/kg - parts per million (ppm)

Method Detection Limit in Soil: 0.003 mg/kg

QAQC Summary:

Daily Standard run at 20 ug/L: RPD = <15%
MS/MSD Average Recovery = 89%: Duplicate RPD = 1%

Richard Srna, Ph.D.

Laboratory Manager

RECEIVED
DEC 16 1992
LAW ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

BCA Log Number _____

Client name: LAW / CRANDALL	Project or PO#: 2123-20663-0001
Address: 4000 Civic Center Drive Suite 305	Phone #: 415-499-1422
City, State, Zip: San Rafael, CA 94903	Report attention: SUSAN GANNEY

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by / Sample description	Number of containers	BTEX	TPH ID	Hazardous sample / Special handling required	Remarks
	12/7/92	4:15	SO	SB6 at 5	1	X	X		5 Day Turnaround

Please initial:
Samples Stored in Ice
Appropriate containers
Samples preserved
VOA's without headspace
Comments:

	Signature	Print Name	Company	Date	Time
Relinquished by	Andrew T. Mulka	Andrew T. Mulka	Law / Crandall	12/7/92	5:30
Received by	Doug Staats #738	DOUG STAATS	AERO / DENVERT	12/7/92	5:30
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory		KIEHLE		12/7/92	6:00

B C ANALYTICAL

- 1255 Powell Street, Emeryville, CA 94608 (510) 428-2300
- 801 Western Ave ndale, CA 91201 (818) 247-5737
- 1200 Gene Autry W. , Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: WW—Wastewater SU—Surface Water SO—Soil SL—Sludge PE—Petroleum -Other NA—Nonaqueous GW—Gro ar AQ—Aqueous

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55865
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR TOTAL PETROLEUM OIL AND GREASE
by Method 5520F (formerly 503E)

LAB #	Sample Identification	Concentration (mg/kg) Total Petroleum Oil & Grease
1	B1@10'	110
2	B2@10'	60
3	B3@10'	100
4	B4@10'	80
5	B5@10'	53

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 50mg/kg

QAQC Summary:
MS/MSD Average Recovery = 98%
Duplicate RPD = 8%

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55865
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	B1@10'	ND<1
2	B2@10'	ND<1
3	B3@10'	ND<1
4	B4@10'	ND<1
5	B5@10'	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/kg

QAQC Summary:

Daily Standard run at 2mg/L: %Diff Gasoline = <15
MS/MSD Recovery = 96%: Duplicate RPD = 2%

Richard Srna, Ph.D.

Laboratory Manager

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55865
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(mg/kg) Benzene	Toluene	Ethyl Benzene	Xylenes
1	B1@10'	ND<.003	ND<.003	ND<.003	ND<.003
2	B2@10'	ND<.003	ND<.003	ND<.003	ND<.003
3	B3@10'	ND<.003	ND<.003	ND<.003	ND<.003
4	B4@10'	ND<.003	ND<.003	ND<.003	ND<.003
5	B5@10'	ND<.003	ND<.003	ND<.003	ND<.003

mg/kg - parts per million (ppm)

Method Detection Limit in Soil: 0.003 mg/kg

QAQC Summary:

Daily Standard run at 20ug/L: %Diff 8020 = <15%
MS/MSD Average Recovery = 91%: Duplicate RPD = 1%

Richard Srna, Ph.D.

Laboratory Manager

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 55865
CLIENT: LAW/CRANDALL, INC.
CLIENT JOB NO.: 2123206630001

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/16/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	B1@10'	ND<10
2	B2@10'	ND<10
3	B3@10'	ND<10
4	B4@10'	ND<10
5	B5@10'	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 88%: Duplicate RPD = 1%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 55865-1
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/11/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123206630001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: B1 @ 10'

Compound	MDL	ug/kg	Compound	MDL	ug/kg
Chloromethane	50	ND	Cis-1,3-Dichloropropene	15	ND
Bromomethane	50	ND	Trichloroethene	15	ND
Vinyl Chloride	50	ND	Dibromochloromethane	15	ND
Chloroethane	50	ND	1,1,2-Trichloroethane	15	ND
Methylene Chloride	50	ND	Benzene	5	ND
Acetone	50	ND	Trans-1,3-Dichloropropene	15	ND
arbon Disulfide	15	ND	2-Chloroethyl vinyl ether	15	ND
richlorofluoromethane	15	ND	Bromoform	15	ND
1,1-Dichloroethene	15	ND	4-Methyl-2-Pentanone	50	ND
1,1-Dichloroethane	15	ND	2-Hexanone	50	ND
trans-1,2-Dichloroethene	15	ND	Tetrachloroethene	15	ND
Chloroform	15	ND	1,1,2,2-Tetrachloroethane	15	ND
1,2-Dichloroethane	5	ND	Toluene	15	ND
2-Butanone	100	ND	Chlorobenzene	15	ND
1,1,1-Trichloroethane	15	ND	Ethylbenzene	15	ND
Carbon Tetrachloride	15	ND	Styrene	15	ND
Vinyl Acetate	50	ND	Total Xylenes	15	ND
Bromodichloromethane	15	ND	1,3-Dichlorobenzene	15	ND
1,2-Dichloropropane	15	ND	1,4-Dichlorobenzene	15	ND
cis-1,2-Dichloroethene	15	ND	1,2-Dichlorobenzene	15	ND

ug/kg = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS soil
1,2-DCA-d4.....	100%	70-121 %
Toluene-d8.....	94%	81-117 %
Bromofluorobenzene.....	110%	74-121 %

comments:

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 55865-2
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/11/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123206630001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: B2 @ 10'

Compound	MDL	ug/kg	Compound	MDL	ug/kg
Chloromethane	50	ND	Cis-1,3-Dichloropropene	15	ND
Bromomethane	50	ND	Trichloroethene	15	ND
Vinyl Chloride	50	ND	Dibromochloromethane	15	ND
Chloroethane	50	ND	1,1,2-Trichloroethane	15	ND
Methylene Chloride	50	ND	Benzene	5	ND
Acetone	50	ND	Trans-1,3-Dichloropropene	15	ND
Carbon Disulfide	15	ND	2-Chloroethyl vinyl ether	15	ND
Trichlorofluoromethane	15	ND	Bromoform	15	ND
1,1-Dichloroethene	15	ND	4-Methyl-2-Pentanone	50	ND
1,1-Dichloroethane	15	ND	2-Hexanone	50	ND
trans-1,2-Dichloroethene	15	ND	Tetrachloroethene	15	ND
Chloroform	15	ND	1,1,2,2-Tetrachloroethane	15	ND
1,2-Dichloroethane	5	ND	Toluene	15	ND
2-Butanone	100	ND	Chlorobenzene	15	ND
1,1,1-Trichloroethane	15	ND	Ethylbenzene	15	ND
Carbon Tetrachloride	15	ND	Styrene	15	ND
Vinyl Acetate	50	ND	Total Xylenes	15	ND
Bromodichloromethane	15	ND	1,3-Dichlorobenzene	15	ND
1,2-Dichloropropane	15	ND	1,4-Dichlorobenzene	15	ND
cis-1,2-Dichloroethene	15	ND	1,2-Dichlorobenzene	15	ND

ug/kg = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS soil
1,2-DCA-d4.....	86%	70-121 %
Toluene-d8.....	112%	81-117 %
Bromofluorobenzene.....	86%	74-121 %

comments:

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 55865-3
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/11/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123206630001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: B3 @ 10'

Compound	MDL	ug/kg	Compound	MDL	ug/kg
Chloromethane	50	ND	Cis-1,3-Dichloropropene	15	ND
Bromomethane	50	ND	Trichloroethene	15	ND
Vinyl Chloride	50	ND	Dibromochloromethane	15	ND
Chloroethane	50	ND	1,1,2-Trichloroethane	15	ND
Methylene Chloride	50	ND	Benzene	5	ND
Acetone	50	ND	Trans-1,3-Dichloropropene	15	ND
arbon Disulfide	15	ND	2-Chloroethyl vinyl ether	15	ND
richlorofluoromethane	15	ND	Bromoform	15	ND
1,1-Dichloroethene	15	ND	4-Methyl-2-Pentanone	50	ND
1,1-Dichloroethane	15	ND	2-Hexanone	50	ND
trans-1,2-Dichloroethene	15	ND	Tetrachloroethene	15	ND
Chloroform	15	ND	1,1,2,2-Tetrachloroethane	15	ND
1,2-Dichloroethane	5	ND	Toluene	15	ND
2-Butanone	100	ND	Chlorobenzene	15	ND
1,1,1-Trichloroethane	15	ND	Ethylbenzene	15	ND
Carbon Tetrachloride	15	ND	Styrene	15	ND
Vinyl Acetate	50	ND	Total Xylenes	15	ND
Bromodichloromethane	15	ND	1,3-Dichlorobenzene	15	ND
1,2-Dichloropropane	15	ND	1,4-Dichlorobenzene	15	ND
cis-1,2-Dichloroethene	15	ND	1,2-Dichlorobenzene	15	ND

ug/kg = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS soil
1,2-DCA-d4.....	99%	70-121 %
Toluene-d8.....	104%	81-117 %
Bromofluorobenzene.....	96%	74-121 %

comments:

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 55865-4
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/14/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123206630001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: B4 @ 10'

Compound	MDL	ug/kg	Compound	MDL	ug/kg
Chloromethane	50	ND	Cis-1,3-Dichloropropene	15	ND
Bromomethane	50	ND	Trichloroethene	15	ND
Vinyl Chloride	50	ND	Dibromochloromethane	15	ND
Chloroethane	50	ND	1,1,2-Trichloroethane	15	ND
Methylene Chloride	50	ND	Benzene	5	ND
Acetone	50	ND	Trans-1,3-Dichloropropene	15	ND
Carbon Disulfide	15	ND	2-Chloroethyl vinyl ether	15	ND
Trichlorofluoromethane	15	ND	Bromoform	15	ND
1,1-Dichloroethene	15	ND	4-Methyl-2-Pentanone	50	ND
1,1-Dichloroethane	15	ND	2-Hexanone	50	ND
trans-1,2-Dichloroethene	15	ND	Tetrachloroethene	15	ND
Chloroform	15	ND	1,1,2,2-Tetrachloroethane	15	ND
1,2-Dichloroethane	5	ND	Toluene	15	ND
2-Butanone	100	ND	Chlorobenzene	15	ND
1,1,1-Trichloroethane	15	ND	Ethylbenzene	15	ND
Carbon Tetrachloride	15	ND	Styrene	15	ND
Vinyl Acetate	50	ND	Total Xylenes	15	ND
Bromodichloromethane	15	ND	1,3-Dichlorobenzene	15	ND
1,2-Dichloropropane	15	ND	1,4-Dichlorobenzene	15	ND
cis-1,2-Dichloroethene	15	ND	1,2-Dichlorobenzene	15	ND

ug/kg = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS soil
1,2-DCA-d4.....	97%	70-121 %
Toluene-d8.....	103%	81-117 %
Bromofluorobenzene.....	100%	74-121 %

comments:

Richard Srna, Ph.D.

Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821 7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 55865-5
CLIENT: LAW/CRANDALL, INC.
DATE SAMPLED : 12/07/92
DATE ANALYZED: 12/14/92

DATE RECEIVED: 12/07/92
DATE REPORTED: 12/15/92
PROJECT NO. 2123206630001

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: B5 @ 10'

Compound	MDL	ug/kg	Compound	MDL	ug/kg
Chloromethane	50	ND	Cis-1,3-Dichloropropene	15	ND
Bromomethane	50	ND	Trichloroethene	15	ND
Vinyl Chloride	50	ND	Dibromochloromethane	15	ND
Chloroethane	50	ND	1,1,2-Trichloroethane	15	ND
Methylene Chloride	50	ND	Benzene	5	ND
Acetone	50	ND	Trans-1,3-Dichloropropene	15	ND
arbon Disulfide	15	ND	2-Chloroethyl vinyl ether	15	ND
richlorofluoromethane	15	ND	Bromoform	15	ND
1,1-Dichloroethene	15	ND	4-Methyl-2-Pentanone	50	ND
1,1-Dichloroethane	15	ND	2-Hexanone	50	ND
trans-1,2-Dichloroethene	15	ND	Tetrachloroethene	15	ND
Chloroform	15	ND	1,1,2,2-Tetrachloroethane	15	ND
1,2-Dichloroethane	5	ND	Toluene	15	ND
2-Butanone	100	ND	Chlorobenzene	15	ND
1,1,1-Trichloroethane	15	ND	Ethylbenzene	15	ND
Carbon Tetrachloride	15	ND	Styrene	15	ND
Vinyl Acetate	50	ND	Total Xylenes	15	ND
Bromodichloromethane	15	ND	1,3-Dichlorobenzene	15	ND
1,2-Dichloropropane	15	ND	1,4-Dichlorobenzene	15	ND
cis-1,2-Dichloroethene	15	ND	1,2-Dichlorobenzene	15	ND

ug/kg = parts per billion (ppb)
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT
QC DATA:

Surrogate Recoveries		QC LIMITS soil
1,2-DCA-d4.....	99%	70-121 %
Toluene-d8.....	104%	81-117 %
Bromofluorobenzene.....	104%	74-121 %

comments:

Richard Srna, Ph.D.

Laboratory Director

CHAIN OF CUSTODY RECORD

55065

BCA Log Number _____

Client name: LAW / CRANDALL INC.	Project or PO#: 2123-20663-0001
Address: 4000 Civic Center Drive, Suite 305	Phone #: 415 499 1422
City, State, Zip: San Rafael, CA 94903	Report attention: SUSAN GAHAN

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by: ATM / Sample description	Number of containers	TPH/G + BTEX	TPH/D	Semi-Volatile Organics EPA	Pesticides + PCBs	Volatile Organics	STLC Cd, Cr, Pb, Zn, Ni	8+6 (5520 B+F)	Hazardous sample Special handling required	Remarks
	12/7/92	~~10:00~~ 10:00	SO	B1 at 10	1	X	X	X	X	X	X	X		5 day Turnaround
	12/7/92	10:30	SO	B2 at 10	1	X	X	X	X	X	X	X		
	12/7/92	11:00	SO	B3 at 10	1	X	X	X	X	X	X	X		
	12/7/92	11:45	SO	B4 at 10	1	X	X	X	X	X	X	X		
	12/7/92	12:30	SO	B5 at 10	1	X	X	X	X	X	X	X		

Please initial:
Samples Stored on Ice
Appropriate containers
Samples preserved
VOA's without headspace
Comments:

Signature	Print Name	Company	Date	Time
Relinquished by: Andrew T. Mola	ANDREW T. MOLA	LAW / CRANDALL	12/7/92	5:30
Received by: Doug Stoats	DOUG STOATS	AERO / DEL	12/7/92	5:[illegible]
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory	KIEHLE		12/7/92	[illegible]

C ANALYTICAL
1255 Powell Street, Emeryville, CA 94608 (510) 428-2300
801 Western Avenue, Glendale, CA 91201 (818) 247-5737
1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: WW—Wastewater SU—Surface Water SO—Soil
SL—Sludge PE—Petroleum OT—Other
NA—Nonaqueous GW—Groundwater AQ—Aqueous

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

Rich Kiehle
SUPERIOR ANALYTICAL LABORATORY
1555 Burke Street, Unit 1
San Francisco, CA 94124

Client Ref. 55865
Clayton Project No. 92120.97

Dear Mr. Kiehle:

Attached is our analytical laboratory report for the samples received on December 8, 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,

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

RHP/caa
Attachments

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	62	25	121
Phenol-d6	13127-88-3	77	24	113
Nitrobenzene-d5	4165-60-0	77	23	120
2-Fluorobiphenyl	321-60-8	95	30	115
2,4,6-Tribromophenol	118-79-6	78	19	122
Terphenyl-d14	98904-43-9	77	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	73	25	121
Phenol-d6	13127-88-3	87	24	113
Nitrobenzene-d5	4165-60-0	84	23	120
2-Fluorobiphenyl	321-60-8	92	30	115
2,4,6-Tribromophenol	118-79-6	85	19	122
Terphenyl-d14	98904-43-9	86	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	67	25	121
Phenol-d6	13127-88-3	73	24	113
Nitrobenzene-d5	4165-60-0	84	23	120
2-Fluorobiphenyl	321-60-8	91	30	115
2,4,6-Tribromophenol	118-79-6	87	19	122
Terphenyl-d14	98904-43-9	78	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	64	25	121
Phenol-d6	13127-88-3	72	24	113
Nitrobenzene-d5	4165-60-0	86	23	120
2-Fluorobiphenyl	321-60-8	91	30	115
2,4,6-Tribromophenol	118-79-6	82	19	122
Terphenyl-d14	98904-43-9	79	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
2-Fluorophenol	367-12-4	63	25	121
Phenol-d6	13127-88-3	75	24	113
Nitrobenzene-d5	4165-60-0	80	23	120
2-Fluorobiphenyl	321-60-8	99	30	115
2,4,6-Tribromophenol	118-79-6	81	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
Acid Extractables			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
Base/Neutral Extractables (continued)			
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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
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
Surrogates		Recovery (%)	QC Limits (%) 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-1	Date Sampled:	12/07/92
Lab Number:	9212097-01A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	92	24 -	150
Dibutylchlorendate	1770-80-5	95	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-2	Date Sampled:	12/07/92
Lab Number:	9212097-02A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	94	24 -	150
Dibutylchlorendate	1770-80-5	96	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-3	Date Sampled:	12/07/92
Lab Number:	9212097-03A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	88	24 -	150
Dibutylchlorendate	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

Results of Analysis
for
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-4	Date Sampled:	12/07/92
Lab Number:	9212097-04A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	82	24 -	150
Dibutylchlorendate	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	55865-5	Date Sampled:	12/07/92
Lab Number:	9212097-05A	Date Received:	12/08/92
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)
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

Surrogates		Recovery (%)	QC Limits (%) LCL	UCL
Tetrachloro-m-xylene	877-09-8	90	24 -	150
Dibutylchlorendate	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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
Organochlorine Pesticides			
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

ND 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
Superior Analytical Laboratory

Client Reference: 55865
Clayton Project No. 92120.97

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9212097-06A	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)
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

Surrogates		Recovery (%)	QC Limits (%) 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

Quality Assurance Results Summary
for
Clayton Project No. 92120.97

Clayton Lab Number: 9212114-01B
Ext./Prep. Method: EPA3550
Date: 12/09/92
Analyst: SCB
Std. Source: M921202-01W
Sample Matrix/Media: SOIL

Analytical Method: EPA8270
Instrument ID: 05138
Date: 12/12/92
Time: 23:37
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	2.05	62	1.90	57	59	38	107	7.6	23
1,4-Dichlorobenzene	ND	3.33	1.70	51	2.00	60	56	28	104	16	27
2,4-Dinitrotoluene	ND	3.33	1.60	48	1.80	54	51	28	89	12	47
2-Chlorophenol	ND	3.33	1.90	57	2.20	66	62	25	102	15	50
4-Chloro-m-cresol	ND	3.33	2.10	63	2.30	69	66	26	103	9.1	33
4-Nitrophenol	ND	3.33	2.10	63	2.00	60	62	11	114	4.9	50
Acenaphthene	ND	3.33	2.20	66	2.30	69	68	31	137	4.4	19
N-Nitrosodipropylamine	ND	3.33	1.80	54	2.10	63	59	41	126	15	38
Pentachlorophenol	ND	3.33	2.10	63	2.50	75	69	17	109	17	47
Phenol	ND	3.33	1.80	54	2.10	63	59	26	90	15	35
Pyrene	ND	3.33	2.90	87	2.50	75	81	35	142	15	36

LCS = Laboratory Control Sample
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. 92120.97

Clayton Lab Number: 9212097-03A
Ext./Prep. Method: EPA3550
Date: 12/10/92
Analyst: STF
Std. Source: G921201-04W
Sample Matrix/Media: SOIL

Analytical Method: EPA8080
Instrument ID: 02933
Date: 12/11/92
Time: 03:13
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	0.0270	68	0.0280	70	69	32	120	3.6	50
ALDRIN	ND	0.0400	0.0320	80	0.0320	80	80	34	132	0.0	43
DIELDRIN	ND	0.0400	0.0300	75	0.0300	75	75	31	134	0.0	38
ENDRIN	ND	0.0400	0.0330	83	0.0330	83	83	42	139	0.0	45
GAMMA-BHC (LINDANE)	ND	0.0400	0.0320	80	0.0350	88	84	46	127	9.0	50
HEPTACHLOR	ND	0.0400	0.0380	95	0.0380	95	95	35	130	0.0	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

12097

Section I

Chain of Custody and Analysis Request

page ___ of ___

From: Superior Precision Analytical, Inc.
1555 Burke St. Unit: I
San Francisco, CA 92124
Phone No. (415) 647-2081 Fax No. (415) 821-7123
Contact: KK
P.O. No. 5565

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs (5 Day) per lester
48 Hrs 10 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553

Work Subcontracted to: CLS

Section II: Analysis Request

Laboratory Sample Identification	S = Soil A = Air W = Water Matrix	CAM17	Metals:	418.1	8270	8080 (pest. and PCB's)					Client Sample Identification	Number of Containers	Preservative (yes or no)			Sampling Remarks
1 5565-1	S-1				X	X					B1 D 10'					Chevron ☐ Non-Chevron ☑ **Please Fax Results**
2 -2	S				X	X					B2 D 10'					
3 -3	S				X	X					B3 D 10'					
4 -4	S				X	X					B4 D 10'					
5 -5	S				X	X					B5 D 10'					
6																
7																
8																
9																
10																
11																
12																

Relinquished by: [signature]	Date/Time: 12/7/12 10P	Received by: [signature] C.E.C.	Date/Time: 12/8/12 1:20p	Lab please initial the following:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Stored in Ice: OK
Organization:		Organization:		Appropriate Containers: OK
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Preserved: N/A
Organization:		Organization:		VOAs without Headspace: OK
				Comments: Rec'd 5M5pt