1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS27

EASW7

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) SOIL Lab Sample ID: 5336G

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) Y Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	17	
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	41	P
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS28

EASW8

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) SOIL Lab Sample ID: 5336H

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) Y Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	49	P
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	87	PE
72-43-5	Methoxychlor	21	JP
53494-70-5	Endrin ketone	5.8	P
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	5.4	
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EASW8DL

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) SOIL Lab Sample ID: 5336HDL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) Y Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	9.5	JPD
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	21	U
72-55-9	4,4'-DDE	60	D
72-20-8	Endrin	21	U
33213-65-9	Endosulfan II	21	U
72-54-8	4,4'-DDD	21	U
1031-07-8	Endosulfan sulfate	21	U
50-29-3	4,4'-DDT	100	D
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	21	U
7421-93-4	Endrin aldehyde	21	U
5103-71-9	alpha-Chlordane	13	D
5103-74-2	gamma-Chlordane	11	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	420	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS29

EASW9

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) SOIL Lab Sample ID: 5336I

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) Y Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	13	
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	31	P
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
5530

EASX0

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) SOIL Lab Sample ID: 5336J

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) Y Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	33	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FB1

EASX1

Lab Name: ANALYTICAL RESOURCES INC Contract: 68-D5-0029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASW1

Matrix: (soil/water) WATER Lab Sample ID: 5336K

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/01/95

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/22/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: (2) CERCLIS No: MIB000000082

Case No: 24259 Site Name Location: Jefferson/Chene

Contractor or EPA Lab: ARI Data User: MDNR

No. of Samples: 11 Date Sampled or Data Received: 1-16-96

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

___ ___ ___ ___

___ ___ ___ ___

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 11 No. of samples received: 11

Received by: Lynette Burnett Date: 1-16-96

Received by LSSS: Allison C Harvey Date: 1-16-96

Review started: 1/22/96 Reviewer Signature: Stephanie N. Tobin

Total time spent on review: 14 hrs Date review completed: 1/29/96

Copied by: Lynette Burnett Date: 2-13-96

Mailed to user by: Lynette Burnett Date: 2-13-96

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: ___ Date: ___

Data review received by: ___ Date: ___

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

___

___

Received by Data Mgmt. Coordinator for Files. Data: ___

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24259

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: MDEQ
4. Date Shipped: 11-28-95
Carrier: Airborne Express
6. Date Received -- Received by: 11/29/95 Erin Johnson
Sampler (Name): Nabil Seif
Airbill Number: 6 8 8 3 0 1 0 6 8 0
Laboratory Contract Number: 68-D5-0029
Unit Price: 621.00
Sampler Signature: Nabil Seif
5. Ship To: Analytical Resources Inc.
333 9th Ave. North
Seattle, WA 98109
ATTN: Kate Stegemoeller
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EASTG	5	L	G	5	X				5-193211-212	SS16	11-28-95 1210	MEAGM6	N			
EASTG	5	L	G	5		X	X		5-193213	SS16	11-28-95 1210	MEAGM6	N			
EASX1	4	L	G	1	X				5-193271-272	FB1	11-28-95 1530	MEAGP1	N			
EASX1	4	L	G	5		X	X		5-193273-274	FB1	11-28-95 1530	MEAGP1	N			

Shipment for Case Complete? (Y/N): Y
Page 2 of 2
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 152996, 152997

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11-28-95 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Erin Johnson	11/29/95 11:00am	SDG # EAS51	

COPY - ORIGINAL W/ SDG # EAS51

01.23332

A21-012-4 REV. 3/93

DISTRIBUT: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

359030

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24259

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: MDEQ
Sampler (Name): Nabil Seif
Sampler Signature: Nabil Seif

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 11-27-95
Carrier: Airborne Express
Airbill Number: 6823106860

5. Ship To: Analytical Resources, Inc
333 9th Ave. North
Seattle, WA 98109
ATTN: Kate Stegemoeller

6. Date Received -- Received by: 11/29/95 Erin Johnson
Laboratory Contract Number: 68-D5-0029
Unit Price: 621.00
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EAST7	5	L	G	5	X				5-193215-216	SS17	11/29/95 1100	MEAGM7				
EAST7						X	X		5-193217	SS17	11/29/95 1100	MEAGM7				
EAST8					X				5-193219-220	SS18	11/29/95 1110	MEAGM8				
EAST8						X	X		5-193221	SS18	11/29/95 1110	MEAGM8				
EAST9					X				5-193223-224	SS19	11/29/95 1115	MEAGM9				
EAST9						X	X		5-193225	SS19	11/29/95 1115	MEAGM9				
EASW0					X				5-193227-228	SS20	11/29/95 1155	MEAGN0				
EASW0						X	X		5-193229	SS20	11/29/95 1155	MEAGN0				
EASW1					X				5-193231-232	SS21	11/29/95 1205	MEAGN1				
EASW1						X	X		5-193233	SS21	11/29/95 1205	MEAGN1				

Shipment for Case Complete? (Y/N): Y
Page 1 of 3
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 152977, 152780

COPY - ORIGINAL w/ SDG # EAS1 01:2329

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Erin Johnson	11/29/95 11:00	SDG # EAS1	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

359031

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24257

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: MDEQ
Sampler (Name): Nabil Seif
Sampler Signature: Nabil Seif

3. Purpose*
Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED
Early Action: [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [X] SI, [ ] ESI
Long-Term Action: [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

4. Date Shipped: 11-28-95
Carrier: Airborne Express
Airbill Number: 6883016680

5. Ship To: Analytical Resources, Inc. 333 9th Ave. North Seattle, WA 98109
ATTN: Kate Stegemoeller

6. Date Received -- Received by: 11/29/95 Erin Johnson
Laboratory Contract Number: 68-D5-0029
Unit Price: 621.00
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EASW2	5	L	G	5	X				5-193235-236	SS22	11-28-95-1230	MEAGN2				
EASW2						X	X		5-193237	SS22	11-28-95-1230	MEAGN2				
EASW3					X				5-193239-240	SS23	11-28-95-1325	MEAGN3				
EASW3						X	X		5-193241	SS23	11-28-95-1325	MEAGN3				
EASW4					X				5-193243-244	SS24	11-28-95-1340	MEAGN4				
EASW4						X	X		5-193245	SS24	11-28-95-1340	MEAGN4				
EASW5					X				5-193247-248	SS25	11-28-95-1400	MEAGN5				
EASW5						X	X		5-193249	SS25	11-28-95-1400	MEAGN5				
EASW6					X				5-193251-252	SS26	11-28-95-1445	MEAGN6				
EASW6						X	X		5-193253	SS26	11-28-95-1445	MEAGN6				

Shipment for Case Complete? (Y/N): Y
Page: 2 of 3
Sample(s) to be Used for Laboratory QC: EASW25
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 152979, 152980

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Nabil Seif	11-28-95 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y/N/none)	
		Erin Johnson	11/29/95 11:00AM	SDG #EASS1	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S.

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

012330

359022

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24259

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: MDEQ
Sampler (Name): Nabil Seif
Sampler Signature: Nabil Seif
3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 11-28-95
Carrier: Airborne Express
Airbill Number: 688301 [illegible]
5. Ship To: Analytical Resources, Inc. 333 9th Ave. North. Seattle, WA 98109
ATTN: Kate Stegemoeller

6. Date Received -- Received by: 11/29/95 Erin Johnson
Laboratory Contract Number: 68-D5-0029
Unit Price: 621.00
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EASW7	5	L	G	6	X				5-193255-256	SS27	11-28-95-1500	MEAGN7	[illegible]			
EASW7	↓	↓	↓	↓		X	X		5-193257	SS27	11-28-95-1500	MEAGN7	[illegible]			
EASW8	↓	↓	↓	↓	X				5-193259-260	SS28	11-28-95-1525	MEAGN8	[illegible]			
EASW8	↓	↓	↓	↓		X	X		5-193261	SS28	11-28-95-1525	MEAGN8	[illegible]			
EASW9	↓	↓	↓	↓	X				5-193263-264	SS29	11-28-95-1615	MEAGN9	[illegible]			
EASW9	↓	↓	↓	↓		X	X		5-193265	SS29	11-28-95-1615	MEAGN9	[illegible]			
EASX0	↓	↓	↓	↓	X				5-193-267-268	SS30	11-28-95-155[illegible]	MEAGP0	[illegible]			
EASX0	↓	↓	↓	↓		X	X		5-193-269	SS30	11-28-95-155[illegible]	MEAGP0	[illegible]			

Shipment for Case Complete? (Y/N): (Y)
Page: 3 of 3
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 152979, 152980

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Nabil Seif	11-28-95 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? (Y)/N/none	
		Erin Johnson	11/29/95 11:00 AM	SDG # C1551	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

01:2331

359033

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 01-12-96

SUBJECT: Review of Region V CLP Data Received for Review on 1/2/96

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) L. Finkelberg for S. Ostrodka
Superfund Technical Support Section

TO: Data User: MDNR

We have reviewed the data for the following case:

SITE NAME: Jefferson / Chene (MI)

CASE NUMBER: 24259 SDG NUMBER: MEAGL1

Number and Type of Samples: 16 (soil)

Sample Numbers: MEAGL1-9, MEAGMO-6

Laboratory: Columbia Hrs. for Review: 14 + 1.0 T.A.

Following are our findings:

The duplicate audits of V and Mn are out of control.
The matrix spike recovery for Sb is out of control.
The matrix spike recovery of Cr and duplicate audit of Cr are out of control.
The ICP serial dilution audit for Cu is out of control.
The CCBs contain contamination.
All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
01-12-96

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

SITE : Jefferson/Chene CASE: 24259
LABORATORY: Columbia SDG : MEAGL1

The laboratory's portion of this case contains sixteen low level soil samples analyzed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT:

The DC-1 form, DC-2 form, airbills, chain of custody forms, raw data, sample tags, and forms are originals. All forms are present and in the order indicated on the DC-2 Form(s) [inventory sheet].

ICP ANALYSES:

The duplicate audit of silver (200 RPD) was not flagged (*) by the laboratory because the technical criterion for soil samples (+/- 2X CRDL) was not exceeded. Silver data are not qualified based on this audit and are acceptable.

The matrix spike recoveries of iron (1463.2%) and manganese (808.5%) were not flagged by the laboratory because the sample results were greater than four times the spike concentration. Manganese and iron data are not qualified based this audit and are qualified below.

The duplicate audits of calcium (+/- CRDL) and iron (34.5 RPD) were flagged (*) by the laboratory; however, the technical criterion for soil samples (+/- 2X CRDL and 35 RPD) were not exceeded. Calcium and iron data are not qualified based on this audit and are acceptable.

The duplicate audits of vanadium (82.8 RPD) and manganese (118.6 RPD) are out of control. All manganese and vanadium data are estimated (J) due to poor precision.

The matrix spike recovery of antimony (32.8%) is out of control. Antimony data for samples MEAGL9 and MEAGM4 are estimated (UJ) due to possible elevation of the detection limit. The remaining antimony data are estimated (J) due to a low bias.

The CCB was found to contain beryllium (0.6 ug/L). Beryllium data for samples MEAGL2, MEAGL3, MEAGL5 through MEAGL9, MEAGM1 through MEAGM3, and MEAGM6.

Reviewed by: M. Fletcher Lockheed/ESAT
Date: 1/11/95

ICP ANALYSES:

The ICP serial dilution audit for copper (24.8%) is out of control. All copper data are estimated (J) due to interference.

The matrix spike recovery (154.3%) and the duplicate audit (97.1 RPD) of chromium are out of control. All chromium data are estimated (J) due to poor precsion and a high bias.

GFAA ANALYSES:

The CCB was found to contain arsenic (0.6 ug/L). The duplicate audit of arsenic (+/- CRDL) was flagged (*) by the laboratory; however, the technical criterion of soil samples (+/- 2x CRDL) was not exceeded. Arsenic data are not qualified based on this audit. Arsenic data for samples MEAGL2 and MEAGL3 were flagged (W) by the laboratory. Arsenic data for sample MEAGL3 is estimated (J) due to contamination and interference. Arsenic data for sample MEAGL2 is estimated (J) due to interference.

Selenium data for samples MEAGL1 through MEAGL9 and MEAGM0 through MEAGM6 were flagged (W) by the laboratory. Selenium data for sample MEAGL9 is estimated (J) due to interference. The remaining "W" flagged data for the samples mentioned above are estimated (UJ) due to interference.

Thallium data for sample MEAGM2 was flagged (W) by the laboratory and is estimated (J) due to interference. The CCB was found to contain thallium (0.5 ug/L). Thallium data for samples MEAGL4 and MEAGL5 are estimated (J) due to contamination.

The matrix spike recovery of lead (150.1%) was not flagged by the laboratory because the sample result was greater than four times the spike concentration. Lead data are not qualified based this audit and are acceptable.

OTHER ANALYSES:

The CCB was found to contain mercury (0.1 ug/L). Mercury data for samples MEAGL4 through MEAGL6, MEAGL8, MEAGM2, and MEAGM6 are estimated (J) due to contamination.

The duplicate audit of cyanide (66.4 RPD) was not flagged (*) by the laboratory because the technical criterion (+/- 2X CRDL) was not exceeded. Cyanide data are not qualified on this basis and are acceptable.

Reviewed by: M. Fletcher Lockheed/ESAT
Date: 1/11/95

INORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

U.S. EPA - CLP

RECEIVED
JAN 2 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEAGL1	K7445-001
MEAGL1D	K7445-001
MEAGL1S	K7445-001
MEAGL2	K7445-002
MEAGL3	K7445-003
MEAGL4	K7445-004
MEAGL5	K7445-005
MEAGL6	K7445-006
MEAGL7	K7445-007
MEAGL8	K7445-008
MEAGL9	K7445-009
MEAGM0	K7445-010
MEAGM1	K7445-011
MEAGM2	K7445-012
MEAGM3	K7445-013
MEAGM4	K7445-014
MEAGM5	K7445-015
MEAGM6	K7445-016

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

RECEIVED
JAN 2 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Jeff Conrad Name: Jeff Conrado

Date: 12/29/95 Title: Metals Lab Manager

24259

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS1

MEAGL1

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-001

Level (low/med): LOW Date Received: 11/29/95

% Solids: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8660			P
7440-36-0	Antimony	5.8	B	N	P
7440-38-2	Arsenic	7.3		S*	F
7440-39-3	Barium	247			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	0.64	B		P
7440-70-2	Calcium	51100		*	P
7440-47-3	Chromium	45.2		N*	P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	54.5		E	P
7439-89-6	Iron	19100		*	P
7439-92-1	Lead	138			F
7439-95-4	Magnesium	14000			P
7439-96-5	Manganese	1050		*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	20.1			P
7440-09-7	Potassium	931	B		P
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	330	B		P
7440-28-0	Thallium	0.79	B		F
7440-62-2	Vanadium	29.5		*	P
7440-66-6	Zinc	152			P
	Cyanide	0.21	B		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

Ann 12/25
~~24260~~

24259 00002

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS2

MEAGL2

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-002

Level (low/med): LOW Date Received: 11/29/95

% Solids: 87.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9730			P
7440-36-0	Antimony	13.5	B	N	P
7440-38-2	Arsenic	1.4	B	W*	F
7440-39-3	Barium	193			P
7440-41-7	Beryllium	0.63	B		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	209000		*	P
7440-47-3	Chromium	1050		N*	P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	34.7		E	P
7439-89-6	Iron	154000		*	P
7439-92-1	Lead	40.4			F
7439-95-4	Magnesium	48100			P
7439-96-5	Manganese	15800		*	P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	10.1			P
7440-09-7	Potassium	64.3	U		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	1.6	B		P
7440-23-5	Sodium	199	B		P
7440-28-0	Thallium	1.1	B		F
7440-62-2	Vanadium	470		*	P
7440-66-6	Zinc	350			P
	Cyanide	0.17	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Dm 12/29
~~24261~~

24259 00003

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS3

MEAGL3

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-003

Level (low/med): LOW Date Received: 11/29/95

% Solids: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15200			P
7440-36-0	Antimony	11.0	B	N	P
7440-38-2	Arsenic	0.69	B	W*	F
7440-39-3	Barium	51.8			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	223000		*	P
7440-47-3	Chromium	1030		N*	P
7440-48-4	Cobalt	0.69	U		P
7440-50-8	Copper	20.2		E	P
7439-89-6	Iron	152000		*	P
7439-92-1	Lead	18.9			F
7439-95-4	Magnesium	51600			P
7439-96-5	Manganese	17500		*	P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	2.5	U		P
7440-09-7	Potassium	65.2	U		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	1.6	B		P
7440-23-5	Sodium	109	B		P
7440-28-0	Thallium	1.1	B		F
7440-62-2	Vanadium	561		*	P
7440-66-6	Zinc	247			P
	Cyanide	0.23	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

~~24262~~

24253 00004

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

554

MEAGL4

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-004

Level (low/med): LOW Date Received: 11/29/95

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9160			P
7440-36-0	Antimony	6.5	B	N	P
7440-38-2	Arsenic	6.5		*	F
7440-39-3	Barium	69.3			P
7440-41-7	Beryllium	0.88	B		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	50200		*	P
7440-47-3	Chromium	15.8		N*	P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	26.0		E	P
7439-89-6	Iron	16500		*	P
7439-92-1	Lead	21.0			F
7439-95-4	Magnesium	15400			P
7439-96-5	Manganese	364		*	P
7439-97-6	Mercury	0.05	B		CV
7440-02-0	Nickel	16.6			P
7440-09-7	Potassium	1310			P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	287	B		P
7440-28-0	Thallium	0.53	B		F
7440-62-2	Vanadium	25.5		*	P
7440-66-6	Zinc	79.1			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Dm 12/26

~~24263~~

24259 00005

FORM I - IN ILM04.0

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

555

MEAGL5

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-005

Level (low/med): LOW Date Received: 11/29/95

% Solids: 89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7030			P
7440-36-0	Antimony	7.2	B	N	P
7440-38-2	Arsenic	5.2		*	F
7440-39-3	Barium	69.3			P
7440-41-7	Beryllium	0.56	B		P
7440-43-9	Cadmium	0.64	B		P
7440-70-2	Calcium	53100		*	P
7440-47-3	Chromium	15.7		N*	P
7440-48-4	Cobalt	4.7	B		P
7440-50-8	Copper	34.5		E	P
7439-89-6	Iron	13100		*	P
7439-92-1	Lead	68.9			F
7439-95-4	Magnesium	14300			P
7439-96-5	Manganese	281		*	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	14.8			P
7440-09-7	Potassium	1030	B		P
7782-49-2	Selenium	0.20	U	W	F
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	146	B		P
7440-28-0	Thallium	0.47	B		F
7440-62-2	Vanadium	21.2		*	P
7440-66-6	Zinc	86.2			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Bmb 12/29

~~24264~~

24259 00006

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS6

MEAGL6

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-006

Level (low/med): LOW Date Received: 11/29/95

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8870			P
7440-36-0	Antimony	7.4	B	N	P
7440-38-2	Arsenic	6.8		*	F
7440-39-3	Barium	71.4			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	44400		*	P
7440-47-3	Chromium	65.1		N*	P
7440-48-4	Cobalt	6.7	B		P
7440-50-8	Copper	45.7		E	P
7439-89-6	Iron	35200		*	P
7439-92-1	Lead	58.8			F
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	692		*	P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	18.1			P
7440-09-7	Potassium	1710			P
7782-49-2	Selenium	0.21	U	W	F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	206	B		P
7440-28-0	Thallium	0.61	B		F
7440-62-2	Vanadium	42.2		*	P
7440-66-6	Zinc	96.3			P
	Cyanide	0.22	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Bmo 12/29
~~24265~~

24259 00007

FORM I - IN ILM04.0

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS7

MEAGL7

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-007

Level (low/med): LOW Date Received: 11/29/95

% Solids: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7830			P
7440-36-0	Antimony	8.0	B	N	P
7440-38-2	Arsenic	7.0		*	F
7440-39-3	Barium	85.3			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	70300		*	P
7440-47-3	Chromium	245		N*	P
7440-48-4	Cobalt	3.7	B		P
7440-50-8	Copper	163		E	P
7439-89-6	Iron	37000		*	P
7439-92-1	Lead	56.1			F
7439-95-4	Magnesium	20300			P
7439-96-5	Manganese	3990		*	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	20.3			P
7440-09-7	Potassium	877	B		P
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	0.65	B		P
7440-23-5	Sodium	167	B		P
7440-28-0	Thallium	1.5	B		F
7440-62-2	Vanadium	97.9		*	P
7440-66-6	Zinc	144			P
	Cyanide	0.78			AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Dm 12/29

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24259

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FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
558

MEAGL8

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-008

Level (low/med): LOW Date Received: 11/29/95

% Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7470			P
7440-36-0	Antimony	5.9	B	N	P
7440-38-2	Arsenic	5.9		*	F
7440-39-3	Barium	50.3			P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	53700		*	P
7440-47-3	Chromium	30.5		N*	P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	21.7		E	P
7439-89-6	Iron	14000		*	P
7439-92-1	Lead	45.3			F
7439-95-4	Magnesium	17700			P
7439-96-5	Manganese	357		*	P
7439-97-6	Mercury	0.07	B		CV
7440-02-0	Nickel	14.5			P
7440-09-7	Potassium	1240			P
7782-49-2	Selenium	0.20	U	W	F
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	295	B		P
7440-28-0	Thallium	0.68	B		F
7440-62-2	Vanadium	27.0		*	P
7440-66-6	Zinc	58.3			P
	Cyanide	0.18	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

DMO 2/29
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24250 00009

FORM I - IN ILM04.0

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS9

MEAGL9

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-009

Level (low/med): LOW Date Received: 11/29/95

% Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8980			P
7440-36-0	Antimony	4.3	U	N	P
7440-38-2	Arsenic	7.4		*	F
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.69	U		P
7440-70-2	Calcium	11400		*	P
7440-47-3	Chromium	17.5		N*	P
7440-48-4	Cobalt	8.5	B		P
7440-50-8	Copper	58.6		E	P
7439-89-6	Iron	17600		*	P
7439-92-1	Lead	107			F
7439-95-4	Magnesium	5790			P
7439-96-5	Manganese	344		*	P
7439-97-6	Mercury	0.28			CV
7440-02-0	Nickel	17.9			P
7440-09-7	Potassium	1200	B		P
7782-49-2	Selenium	0.36	B	W	F
7440-22-4	Silver	0.46	U		P
7440-23-5	Sodium	123	B		P
7440-28-0	Thallium	0.66	B		F
7440-62-2	Vanadium	29.2		*	P
7440-66-6	Zinc	132			P
	Cyanide	0.10	B		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

Bmo 12/29

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24259 00010

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS10

MEAGM0

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-010

Level (low/med): LOW Date Received: 11/29/95

% Solids: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9490			P
7440-36-0	Antimony	6.4	B	N	P
7440-38-2	Arsenic	6.4		*	F
7440-39-3	Barium	68.2			P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	51800		*	P
7440-47-3	Chromium	16.9		N*	P
7440-48-4	Cobalt	7.4	B		P
7440-50-8	Copper	26.4		E	P
7439-89-6	Iron	17400		*	P
7439-92-1	Lead	49.8			F
7439-95-4	Magnesium	18300			P
7439-96-5	Manganese	455		*	P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	19.0			P
7440-09-7	Potassium	1710			P
7782-49-2	Selenium	0.21	U	W	F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	215	B		P
7440-28-0	Thallium	0.60	B		F
7440-62-2	Vanadium	30.0		*	P
7440-66-6	Zinc	85.0			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

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24259 00011

FORM I - IN ILM04.0

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS 11

MEAGM1

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-011

Level (low/med): LOW Date Received: 11/29/95

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11600			P
7440-36-0	Antimony	27.5		N	P
7440-38-2	Arsenic	1.2	B	*	F
7440-39-3	Barium	36.5	B		P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	145000		*	P
7440-47-3	Chromium	790		N*	P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	40.7		E	P
7439-89-6	Iron	273000		*	P
7439-92-1	Lead	19.1			F
7439-95-4	Magnesium	43500			P
7439-96-5	Manganese	11200		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	2.5	U		P
7440-09-7	Potassium	64.9	U		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	97.9	B		P
7440-28-0	Thallium	1.2	B		F
7440-62-2	Vanadium	383		*	P
7440-66-6	Zinc	281			P
	Cyanide	0.36	B		AS

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

Dm 12/29

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24250 00012

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS12

MEAGM2

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-012

Level (low/med): LOW Date Received: 11/29/95

% Solids: 91.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4560			P
7440-36-0	Antimony	4.2	B	N	P
7440-38-2	Arsenic	3.2		*	F
7440-39-3	Barium	29.9	B		P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.59	U		P
7440-70-2	Calcium	33400		*	P
7440-47-3	Chromium	32.1		N*	P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	25.4		E	P
7439-89-6	Iron	10400		*	P
7439-92-1	Lead	25.2			F
7439-95-4	Magnesium	7710			P
7439-96-5	Manganese	561		*	P
7439-97-6	Mercury	0.04	B		CV
7440-02-0	Nickel	6.5	B		P
7440-09-7	Potassium	417	B		P
7782-49-2	Selenium	0.20	U	W	F
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	756	B		P
7440-28-0	Thallium	0.55	B	W	F
7440-62-2	Vanadium	30.2		*	P
7440-66-6	Zinc	49.2			P
	Cyanide	0.10	B		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

DMM 12/29

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24259

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS 13

MEAGM3

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-013

Level (low/med): LOW Date Received: 11/29/95

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8670			P
7440-36-0	Antimony	6.1	B	N	P
7440-38-2	Arsenic	4.1		*	F
7440-39-3	Barium	53.1			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	58800		*	P
7440-47-3	Chromium	14.6		N*	P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	21.3		E	P
7439-89-6	Iron	15500		*	P
7439-92-1	Lead	26.9			F
7439-95-4	Magnesium	15800			P
7439-96-5	Manganese	558		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	1660			P
7782-49-2	Selenium	0.20	U	W	F
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	362	B		P
7440-28-0	Thallium	0.61	B		F
7440-62-2	Vanadium	26.2		*	P
7440-66-6	Zinc	62.6			P
	Cyanide	0.24	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

12/29

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24259 00014

FORM I - IN ILM04.0

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS 14

MEAGM4

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-014

Level (low/med): LOW Date Received: 11/29/95

% Solids: 80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20600			P
7440-36-0	Antimony	4.2	U	N	P
7440-38-2	Arsenic	4.1		*	F
7440-39-3	Barium	123			P
7440-41-7	Beryllium	0.98	B		P
7440-43-9	Cadmium	0.67	U		P
7440-70-2	Calcium	20600		*	P
7440-47-3	Chromium	31.2		N*	P
7440-48-4	Cobalt	10.6	B		P
7440-50-8	Copper	19.1		E	P
7439-89-6	Iron	23500		*	P
7439-92-1	Lead	9.8			F
7439-95-4	Magnesium	15300			P
7439-96-5	Manganese	484		*	P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	28.2			P
7440-09-7	Potassium	2830			P
7782-49-2	Selenium	0.22	U	W	F
7440-22-4	Silver	0.44	U		P
7440-23-5	Sodium	337	B		P
7440-28-0	Thallium	0.91	B		F
7440-62-2	Vanadium	45.5		*	P
7440-66-6	Zinc	63.8			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

12/29

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24253 00015

FORM I - IN ILM04.0

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS15

MEAGM5

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-015

Level (low/med): LOW Date Received: 11/29/95

% Solids: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			P
7440-36-0	Antimony	4.2	B	N	P
7440-38-2	Arsenic	5.4		*	F
7440-39-3	Barium	64.7			P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	61200		*	P
7440-47-3	Chromium	19.6		N*	P
7440-48-4	Cobalt	12.0			P
7440-50-8	Copper	18.6		E	P
7439-89-6	Iron	20800		*	P
7439-92-1	Lead	8.5			F
7439-95-4	Magnesium	19600			P
7439-96-5	Manganese	531		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	30.9			P
7440-09-7	Potassium	2610			P
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	960	B		P
7440-28-0	Thallium	0.73	B		F
7440-62-2	Vanadium	33.1		*	P
7440-66-6	Zinc	49.6			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

12/29

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24250 00016

FORM I - IN ILM04.0

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
5516

MEAGM6

ab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Lab Sample ID: K7445-016

Level (low/med): LOW Date Received: 11/29/95

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8040			P
7440-36-0	Antimony	5.5	B	N	P
7440-38-2	Arsenic	5.3		*	F
7440-39-3	Barium	54.4			P
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	66900		*	P
7440-47-3	Chromium	16.0		N*	P
7440-48-4	Cobalt	7.5	B		P
7440-50-8	Copper	16.3		E	P
7439-89-6	Iron	16200		*	P
7439-92-1	Lead	34.6			F
7439-95-4	Magnesium	20800			P
7439-96-5	Manganese	391		*	P
7439-97-6	Mercury	0.05	B		CV
7440-02-0	Nickel	23.5			P
7440-09-7	Potassium	1440			P
7782-49-2	Selenium	0.21	U	W	F
7440-22-4	Silver	0.59	B		P
7440-23-5	Sodium	389	B		P
7440-28-0	Thallium	0.64	B		F
7440-62-2	Vanadium	24.1		*	P
7440-66-6	Zinc	48.3			P
	Cyanide	0.46	B		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

24259 ~~24275~~ 12/28

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FORM I - IN ILM04.0

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	7.0	U	7.0	U	7.0	U	34.8	B	4.434	B	P
Antimony	16.9	U	16.9	U	16.9	U	16.9	U	3.380	U	P
Arsenic	0.5	U	0.6	B	0.5	B	-0.7	B	0.100	U	F
Barium	2.1	B	0.7	U	0.7	U	0.7	U	0.140	U	P
Beryllium	0.6	U	0.6	U	0.6	U	0.6	B	0.120	U	P
Cadmium	2.7	U	2.7	U	2.7	U	2.7	U	0.540	U	P
Calcium	7.2	U	7.2	U	7.2	U	42.0	B	2.488	B	P
Chromium	2.9	U	2.9	U	2.9	U	2.9	U	0.580	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Copper	0.6	U	0.6	U	0.6	U	0.6	U	0.120	U	P
Iron	3.4	U	3.4	U	3.4	U	27.6	B	2.412	B	P
Lead	0.6	U	0.6	U	0.6	U	0.6	U	0.120	U	F
Magnesium	127.8	U	127.8	U	127.8	U	127.8	U	25.560	U	P
Manganese	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Mercury	0.1	B	0.1	B	0.1	B	0.1	U	0.036	U	CV
Nickel	10.9	U	10.9	U	10.9	U	10.9	U	2.180	U	P
Potassium	281.8	U	281.8	U	281.8	U	281.8	U	-111.644	B	P
Selenium	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	F
Silver	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Sodium	25.8	U	25.8	U	25.8	U	25.8	U	5.160	U	P
Thallium	0.5	B	0.5	B	0.4	B			0.060	U	F
Vanadium	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Zinc	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	P
Cyanide	1.0	U	-1.4	B	-1.8	B	-1.5	B	-0.060	B	AS

24259 ~~24288~~ 12/29

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			9.9	B	30.4	B	11.0	B			P
Antimony			16.9	U	16.9	U	16.9	U			P
Arsenic			0.5	U	-0.5	B	0.5	U			F
Barium			0.7	U	0.7	U	0.7	U			P
Beryllium			0.6	U	0.6	B	0.6	U			P
Cadmium			2.7	U	2.7	U	2.7	U			P
Calcium			42.8	B	38.8	B	69.7	B			P
Chromium			2.9	U	2.9	U	2.9	U			P
Cobalt			3.0	U	3.0	U	3.0	U			P
Copper			0.6	U	0.6	U	0.6	U			P
Iron			45.2	B	32.6	B	40.0	B			P
Lead			0.6	U	1.1	B	1.1	B			F
Magnesium			127.8	U	127.8	U	127.8	U			P
Manganese			3.0	B	0.9	U	0.9	B			P
Mercury			0.1	U	0.1	U					CV
Nickel			10.9	U	10.9	U	10.9	U			P
Potassium			344.4	B	281.8	U	281.8	U			P
Selenium			0.9	U	0.9	U	0.9	U			F
Silver			1.8	U	1.8	U	1.8	U			P
Sodium			25.8	U	25.8	U	25.8	U			P
Thallium											
Vanadium			1.8	U	1.8	U	1.8	U			P
Zinc			1.4	U	1.4	U	1.4	U			P
Cyanide			-1.0	B							AS

Dm 12/29

24259 ~~24289~~

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			46.0	B							P
Antimony			16.9	U							P
Arsenic											
Barium			0.7	U							P
Beryllium			0.6	B							P
Cadmium			2.7	U							P
Calcium			50.9	B							P
Chromium			2.9	U							P
Cobalt			3.0	U							P
Copper			0.6	U							P
Iron			37.1	B							P
Lead											
Magnesium			127.8	U							P
Manganese			0.9	U							P
Mercury											
Nickel			10.9	U							P
Potassium			281.8	U							P
Selenium			0.9	U	0.9	U	0.9	U			F
Silver			1.8	U							P
Sodium			25.8	U							P
Thallium											
Vanadium			1.8	U							P
Zinc			1.4	U							P
Cyanide											

DMP 12/29
~~24290~~

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			0.9	U	0.9	U	0.9	U			F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

Dm 12/26

24259 ~~24291~~

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	0.5	U	0.5	U	0.5	U	0.5	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	0.6	U	0.6	U	0.6	U	0.6	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	0.3	U	-0.3	B	-0.4	B	0.3	U			F
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			0.5	U							F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			0.6	U	1.8	B	1.0	B			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			0.3	U	-0.4	B	0.3	U			F
Vanadium											
Zinc											
Cyanide											

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			0.6	U	0.7	B					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			0.3	U	0.3	U					F
Vanadium											
Zinc											
Cyanide											

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAGL1S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	44.0467		5.7874	B	116.82	32.8	N	P
Arsenic	75-125	16.7793		7.2846		9.35	101.5		F
Barium	75-125	681.6799		247.1425		467.29	93.0		P
Beryllium	75-125	11.4766		1.0981	B	11.68	88.9		P
Cadmium	75-125	11.0724		0.6402	B	11.68	89.3		P
Calcium									NR
Chromium	75-125	117.2523		45.1659		46.73	154.3	N	P
Cobalt	75-125	107.0093		5.6565	B	116.82	86.8		P
Copper	75-125	107.6986		54.4836		58.41	91.1		P
Iron		22539.8410		19121.1440		233.64	1463.2		P
Lead		144.8598		137.8505		4.67	150.1		F
Magnesium									NR
Manganese		1991.9042		1047.3621		116.82	808.5		P
Mercury	75-125	0.7865		0.1298		0.76	86.4		CV
Nickel	75-125	125.7570		20.1121		116.82	90.4		P
Potassium									NR
Selenium	75-125	1.8692	B	1.0514	U	2.34	79.9		F
Silver	75-125	9.3061		0.4206	U	11.68	79.7		P
Sodium									NR
Thallium	75-125	12.1963		0.7944	B	11.68	97.6		F
Vanadium	75-125	150.7477		29.5304		116.82	103.8		P
Zinc	75-125	272.9626		152.4159		116.82	103.2		P
Cyanide	75-125	5.6020		0.2142	B	5.84	92.3		AS

Comments:

Form 12/24

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24259

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAGL1A

ab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		129.61		24.77	B	120.0	87.4		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		574.83		193.31		400.0	95.4		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

MEAGL1D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.6 % Solids for Duplicate: 84.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8664.1215		8797.6542		1.5		P
Antimony		5.7874	B	6.6028	B	13.2		P
Arsenic	2.3	7.2846		10.2584		33.9	*	F
Barium		247.1425		257.3621		4.1		P
Beryllium		1.0981	B	0.8972	B	20.1		P
Cadmium		0.6402	B	0.8481	B	27.9		P
Calcium		51132.9930		63529.9250		21.6	*	P
Chromium		45.1659		130.4556		97.1	*	P
Cobalt		5.6565	B	5.2173	B	8.1		P
Copper		54.4836		54.1612		0.6		P
Iron		19121.1440		27092.2030		34.5	*	P
Lead		137.8505		144.8598		5.0		F
Magnesium		13979.4970		16739.5250		18.0		P
Manganese		1047.3621		4099.2850		118.6	*	P
Mercury	0.1	0.1298		0.1098		16.7		CV
Nickel	9.3	20.1121		20.4299		1.6		P
Potassium		931.4463	B	1008.8061	B	8.0		P
Selenium		1.0514	U	1.0514	U			F
Silver		0.4206	U	0.4790	B	200.0		P
Sodium		329.5327	B	335.2617	B	1.7		P
Thallium		0.7944	B	1.0748	B	30.0		F
Vanadium	11.7	29.5304		71.2570		82.8	*	P
Zinc		152.4159		175.6192		14.1		P
Cyanide		0.2142	B	0.4273	B	66.4		AS

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FORM VI - IN

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: TJA-1 Date: 10/15/95

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	7.0	P
Antimony	206.80		60.0	16.9	P
Arsenic			10.0		
Barium	493.60		200.0	0.7	P
Beryllium	313.00		5.0	0.6	P
Cadmium	228.80		5.0	2.7	P
Calcium	317.90		5000.0	7.2	P
Chromium	267.70		10.0	2.9	P
Cobalt	228.60		50.0	3.0	P
Copper	324.70		25.0	0.6	P
Iron	259.90		100.0	3.4	P
Lead			3.0		
Magnesium	383.20		5000.0	127.8	P
Manganese	257.60		15.0	0.9	P
Mercury			0.2		
Nickel	231.60		40.0	10.9	P
Potassium	766.50		5000.0	281.8	P
Selenium			5.0		
Silver	328.00		10.0	1.8	P
Sodium	588.90		5000.0	25.8	P
Thallium			10.0		
Vanadium	292.40		50.0	1.8	P
Zinc	213.80		20.0	1.4	P
Cyanide			10.0		

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: Date: 10/15/95

Flame AA ID Number:

Furnace AA ID Number: VARIAN-2

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	283.30	BZ	3.0	0.6	F
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: Date: 10/15/95

Flame AA ID Number: VARIAN-3

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70	BD	0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: Date: 10/15/95

Flame AA ID Number:

Furnace AA ID Number: VARIAN-4

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.00	BZ	5.0	0.9	F
Silver			10.0		
Sodium			5000.0		
Thallium	276.80	BZ	10.0	0.3	F
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

24259 00048

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: Date: 10/15/95

Flame AA ID Number:

Furnace AA ID Number: VARIAN-5

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	193.70	BZ	10.0	0.5	F
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1

ICP ID Number: Date: 10/15/95

Flame AA ID Number: LATCHAT-1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0	1.0	AS

Comments:

24259 00050

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: TJA-1 Method: P
Start Date: 12/19/95 End Date: 12/19/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1657		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1659		X				X		X		X	X	X		X	X								X	X	
S	1.00	1701			X		X		X		X								X	X		X	X				
ICV	1.00	1703		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICB	1.00	1706		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV11	1.00	1708		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB11	1.00	1711		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV12	1.00	1716		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB12	1.00	1718		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRII	1.00	1721			X			X	X		X	X	X				X		X			X			X	X	
ICSAI	1.00	1726		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSABI	1.00	1729		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV13	1.00	1731		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB13	1.00	1734		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1736		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1739		X	X		X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	10.00	1742								X																	
MEAGL1	1.00	1750		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAGL1L	5.00	1756		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAGL1D	1.00	1800		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAGL1S	1.00	1806			X		X	X	X		X	X	X				X		X			X			X	X	
MEAGL1A	1.00	1822			X						X																
MEAGL2	1.00	1825		X	X		X	X	X		X	X	X			X	X		X	X		X	X		X	X	
MEAGL2	10.00	1830								X				X													
CCV14	1.00	1833		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB14	1.00	1835		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAGL3	1.00	1844		X	X		X	X	X		X	X	X			X	X		X	X		X	X		X	X	
MEAGM1	1.00	1848		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1852																									
MEAGL3	10.00	1857							X				X														
MEAGM1	10.00	1900												X													
MEAGL4	1.00	1904		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: TJA-1 Method: P
Start Date: 12/19/95 End Date: 12/19/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAGL5	1.00	1907		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CRIF1	1.00	1912			X	-		X	X		X	X	X		-		X	-	X		-	X		-	X	X	-
ICSAF1	1.00	1917		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSABF1	1.00	1921		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCV15	1.00	1923		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB15	1.00	1925		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGL6	1.00	1928		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGL7	1.00	1931		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGL8	1.00	1934		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGL9	1.00	1938		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGM0	1.00	1941		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGM2	1.00	1945		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGM3	1.00	1948		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	[illegible]	-
MEAGM4	1.00	1952		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	[illegible]	-
MEAGM5	1.00	1956		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAGM6	1.00	1958		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCV16	1.00	2001		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB16	1.00	2003		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CRIF2	1.00	2006			X	-		X	X		X	X	X		-		X	-	X		-	X		-	X	X	-
ICSAF2	1.00	2009		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSABF2	1.00	2013		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCV17	1.00	2014		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB17	1.00	2017		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-

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FORM XIV - IN ILM04.0

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-5 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0904				X																					
S10	1.00	0908				X																					
S20	1.00	0912				X																					
S40	1.00	0916				X																					
S60	1.00	0920				X																					
ICV	1.00	0924				X																					
ICB	1.00	0928				X																					
CCV11	1.00	0932				X																					
CCB11	1.00	0936				X																					
CRA	1.00	0940				X																					
PBS	1.00	0944				X																					
PBSA	1.00	0948	100.5			X																					
LCSS	250.00	0952				X																					
[illegible]SSA	250.00	0956	100.0			X																					
[illegible]V12	1.00	1000				X																					
CCB12	1.00	1004				X																					
ZZZZZZ	1.00	1008																									
ZZZZZZ	1.00	1012																									
CCV13	1.00	1016				X																					
CCB13	1.00	1020				X																					
MEAGL1	1.00	1024																									
MEAGL1A	1.00	1028	85.5																								
MEAGL1D	1.00	1032																									
MEAGL1DA	1.00	1036	79.5																								
MEAGL1S	1.00	1040				X																					
MEAGL2	1.00	1044				X																					
MEAGL2A	1.00	1048	80.5			X																					
MEAGL3	1.00	1052				X																					
MEAGL3A	1.00	1056	74.0			X																					
CCV14	1.00	1100				X																					
CCB14	1.00	1104				X																					
ZZZZZZ	1.00	1108																									

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-5 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1112																									
CCV15	1.00	1116				X																					
CCB15	1.00	1120				X																					
MEAGL4	1.00	1124				X																					
MEAGL4A	1.00	1128	88.0			X																					
MEAGL5	1.00	1132				X																					
MEAGL5A	1.00	1136	91.0			X																					
MEAGL6	1.00	1140				X																					
MEAGL6A	1.00	1144	99.0			X																					
MEAGL7	1.00	1148				X																					
MEAGL7A	1.00	1152	96.0			X																					
MEAGL8	1.00	1156				X																					
MEAGL8A	1.00	1200	93.0			X																					
CCV16	1.00	1204				X																					
CCB16	1.00	1208				X																					

24259

00061

FORM XIV - IN

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-5 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1212		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S10	1.00	1216		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S20	1.00	1220		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S40	1.00	1224		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S60	1.00	1228		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ICV2	1.00	1232		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ICB2	1.00	1236		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV21	1.00	1240		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCB21	1.00	1244		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CRA2	1.00	1252		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1D	1.00	1256		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1DA	1.00	1300	77.5	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL9	1.00	1304		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AGL9A	1.00	1308	100.0	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM0	1.00	1312		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM0A	1.00	1316	93.5	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM1	1.00	1320		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM1A	1.00	1324	85.0	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV22	1.00	1328		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCB22	1.00	1332		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM2	1.00	1336		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM2A	1.00	1340	100.0	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM3	1.00	1344		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM3A	1.00	1348	92.5	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM4	1.00	1352		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM4A	1.00	1356	88.5	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM5	1.00	1400		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM5A	1.00	1404	86.5	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM6	1.00	1408		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM6A	1.00	1412	93.0	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV23	1.00	1416		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCB23	1.00	1420		—	—	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-5 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAGL10	2.00	1424				X																					
MEAGL11	2.00	1426				X																					
MEAGL12	2.00	1428				X																					
MEAGL13	2.00	1430				X																					
MEAGL1D0	2.00	1432				X																					
MEAGL1D1	2.00	1434				X																					
MEAGL1D2	2.00	1436				X																					
MEAGL1D3	2.00	1438				X																					
MEAGL1S0	2.00	1440				X																					
MEAGL1S1	2.00	1442				X																					
MEAGL1S2	2.00	1444				X																					
MEAGL1S3	2.00	1446				X																					
CCV24	1.00	1448				X																					
CCB24	1.00	1450				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-2 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0904		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S3	1.00	0908		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S30	1.00	0912		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S40	1.00	0916		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S50	1.00	0920		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ICV	1.00	0924		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ICB	1.00	0928		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV11	1.00	0932		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB11	1.00	0936		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CRA	1.00	0940		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
PBS	1.00	0944		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
PBSA	1.00	0948	100.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
LCSS	50.00	0952		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
LCSSA	50.00	0956	99.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV12	1.00	1000		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB12	1.00	1004		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1	1.00	1008		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1A	1.00	1012	-1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1D	1.00	1016		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1DA	1.00	1020	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1S	1.00	1024		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL2	1.00	1028		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL2A	1.00	1032	0.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL3	1.00	1036		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL3A	1.00	1040	0.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV13	1.00	1044		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB13	1.00	1048		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1052		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1056		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV14	1.00	1100		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB14	1.00	1104		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL4	1.00	1108		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

24259

FORM XIV - IN

ILM04.0

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-2 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAGL5	1.00	1112																									
MEAGL6	1.00	1116																									
MEAGL7	1.00	1120																									
MEAGL8	1.00	1124																									
MEAGL9	1.00	1128																									
MEAGM0	1.00	1132																									
MEAGM1	1.00	1136																									
MEAGM2	1.00	1140																									
MEAGM3	1.00	1144																									
CCV15	1.00	1148													X												
CCB15	1.00	1152													X												
MEAGM4	1.00	1156																									
MEAGM5	1.00	1200																									
MEAGM6	1.00	1204																									
CCV16	1.00	1208													X												
CCB16	1.00	1212													X												

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-2 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1228		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S3	1.00	1232		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S30	1.00	1236		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S40	1.00	1240		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
S50	1.00	1244		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ICV2	1.00	1248		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ICB2	1.00	1252		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV21	1.00	1256		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB21	1.00	1300		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1304		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CRA2	1.00	1308		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1	50.00	1312		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1A	50.00	1316	104.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
AGL1D	50.00	1320		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1DA	50.00	1324	102.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL1S	50.00	1328		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV22	1.00	1332		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB22	1.00	1336		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1340		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL2	10.00	1344		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL2A	10.00	1348	110.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL3	5.00	1352		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL3A	5.00	1356	107.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL4	5.00	1400		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL4A	5.00	1404	99.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL5	25.00	1408		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL5A	25.00	1412	101.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL6	25.00	1416		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL6A	25.00	1420	100.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV23	1.00	1424		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB23	1.00	1428		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1432		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-2 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1436		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV24	1.00	1440		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB24	1.00	1444		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL7	25.00	1448		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL7A	25.00	1452	103.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL8	10.00	1456		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL8A	10.00	1500	99.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL9	25.00	1504		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGL9A	25.00	1508	99.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM0	10.00	1512		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM0A	10.00	1516	101.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM1	5.00	1520		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM1A	5.00	1524	104.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV25	1.00	1528		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB25	1.00	1532		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM2	5.00	1536		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM2A	5.00	1540	99.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM3	5.00	1544		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM3A	5.00	1548	97.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM4	2.00	1552		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM4A	2.00	1556	101.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV26	1.00	1600		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB26	1.00	1604		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1608		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1612		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV27	1.00	1616		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCB27	1.00	1620		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM5	2.00	1624		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM5A	2.00	1628	107.0	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM6	10.00	1632		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
MEAGM6A	10.00	1636	100.5	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—
CCV28	1.00	1640		—	—	—	—	—	—	—	—	—	—	—	X	—	—	—	—	—	—	—	—	—	—	—	—

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-2 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB28	1.00	1644													X												

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FORM XIV - IN ILM04.0

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/18/95 End Date: 12/18/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	C N
S0	1.00	0804		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	0808		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S30	1.00	0812		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S40	1.00	0816		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	0820		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	0824		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	0828		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV11	1.00	0832		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB11	1.00	0836		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	0840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS	1.00	0844		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBSA	1.00	0848	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS	10.00	0852		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSSA	10.00	0856	94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV12	1.00	0900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB12	1.00	0904		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	0908		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0912		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV13	1.00	0916		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB13	1.00	0920		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAGL1	1.00	0924		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL1A	1.00	0928	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL1D	1.00	0932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL1DA	1.00	0936	39.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL1S	1.00	0940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL2	1.00	0944		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL2A	1.00	0948	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL3	1.00	0952		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAGL3A	1.00	0956	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV14	1.00	1000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB14	1.00	1004		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1008		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/18/95 End Date: 12/18/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1012																									
CCV15	1.00	1016																			X						
CCB15	1.00	1020																			X						
MEAGL4	1.00	1024																									
MEAGL4A	1.00	1028	37.0																								
MEAGL5	1.00	1032																			X						
MEAGL5A	1.00	1036	52.0																		X						
MEAGL6	1.00	1040																			X						
MEAGL6A	1.00	1044	50.0																		X						
MEAGL7	1.00	1048																									
MEAGL7A	1.00	1052	29.0																								
MEAGL8	1.00	1056																			X						
MEAGL8A	1.00	1100	57.0																		X						
CV16	1.00	1104																			X						
CCB16	1.00	1108																			X						
MEAGL9	1.00	1112																			X						
MEAGL9A	1.00	1116	58.0																		X						
MEAGM0	1.00	1120																			X						
MEAGM0A	1.00	1124	51.0																		X						
MEAGM1	1.00	1128																									
MEAGM1A	1.00	1132	19.0																								
MEAGM2	1.00	1136																			X						
MEAGM2A	1.00	1140	58.0																		X						
CCV17	1.00	1144																			X						
CCB17	1.00	1148																			X						
ZZZZZZ	1.00	1152																									
ZZZZZZ	1.00	1156																									
CCV18	1.00	1200																			X						
CCB18	1.00	1204																			X						
MEAGM3	1.00	1208																			X						
MEAGM3A	1.00	1212	42.0																		X						
MEAGM4	1.00	1216																			X						

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/18/95 End Date: 12/18/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAGM4A	1.00	1220	64.0																		X						
MEAGM5	1.00	1224																									
MEAGM5A	1.00	1228	39.0																								
MEAGM6	1.00	1232																			X						
MEAGM6A	1.00	1236	49.0																		X						
CCV19	1.00	1240																			X						
CCB19	1.00	1244																			X						
ZZZZZZ	1.00	1248																									
ZZZZZZ	1.00	1252																									
CCV110	1.00	1256																			X						
CCB110	1.00	1300																			X						
MEAGL1	5.00	1304																			X						
MEAGL1A	5.00	1308	84.0																		X						
MEAGL1D	5.00	1312																			X						
MEAGL1DA	5.00	1316	103.0																		X						
MEAGL1S	5.00	1320																			X						
MEAGL2	5.00	1324																			X						
MEAGL2A	5.00	1328	66.0																		X						
MEAGL3	5.00	1332																			X						
MEAGL3A	5.00	1336	54.0																		X						
CCV111	1.00	1340																			X						
CCB111	1.00	1344																			X						
ZZZZZZ	1.00	1348																									
MEAGL4	5.00	1352																			X						
MEAGL4A	5.00	1356	81.0																		X						
MEAGL7	5.00	1400																			X						
MEAGL7A	5.00	1404	74.0																		X						
MEAGM1	5.00	1408																			X						
MEAGM1A	5.00	1412	64.0																		X						
MEAGM5	5.00	1416																			X						
MEAGM5A	5.00	1420	78.0																		X						
CCV112	1.00	1424																			X						

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/18/95 End Date: 12/18/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB112	1.00	1428																			X						

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
S0	1.00	1704																						X		
S10	1.00	1708																						X		
S20	1.00	1712																						X		
S40	1.00	1716																						X		
S60	1.00	1720																						X		
ICV	1.00	1724																						X		
ICB	1.00	1728																						X		
CCV11	1.00	1732																						X		
CCB11	1.00	1736																						X		
ZZZZZZ	1.00	1740																								
CRA	1.00	1744																						X		
PBS	1.00	1748																						X		
PBSA	1.00	1752	98.5																					X		
LCSS	5.00	1756																								
LCSSA	5.00	1800	-242.0																							
MEAGL1	1.00	1804																						X		
MEAGL1A	1.00	1808	105.0																					X		
MEAGL1D	1.00	1812																						X		
MEAGL1DA	1.00	1816	94.5																					X		
MEAGL1S	1.00	1820																						X		
CCV12	1.00	1824																						X		
CCB12	1.00	1828																						X		

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1924		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S10	1.00	1928		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S20	1.00	1932		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S40	1.00	1936		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S60	1.00	1940		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ICV2	1.00	1944		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ICB2	1.00	1948		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCV21	1.00	1952		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB21	1.00	1956		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CRA2	1.00	2000		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
LCSS	10.00	2004		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
LCSSA	10.00	2008	101.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL2	1.00	2012		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
EAGL2A	1.00	2016	103.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCV22	1.00	2020		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB22	1.00	2024		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL3	1.00	2028		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL3A	1.00	2032	107.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL4	1.00	2036		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL4A	1.00	2040	106.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL5	1.00	2044		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL5A	1.00	2048	108.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCV23	1.00	2052		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB23	1.00	2056		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ZZZZZZ	1.00	2100		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	2104		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV24	1.00	2108		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB24	1.00	2112		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL6	1.00	2116		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL6A	1.00	2120	104.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL7	1.00	2124		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MEAGL7A	1.00	2128	102.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-4 Method: F
Start Date: 12/15/95 End Date: 12/15/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
MEAGL8	1.00	2132		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGL8A	1.00	2136	98.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGL9	1.00	2140		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGL9A	1.00	2144	102.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCV25	1.00	2148		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB25	1.00	2152		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM0	1.00	2156		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM0A	1.00	2200	102.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM1	1.00	2204		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM1A	1.00	2208	112.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM2	1.00	2212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM2A	1.00	2216	78.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM3	1.00	2220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM3A	1.00	2224	103.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM4	1.00	2228		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM4A	1.00	2232	102.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCV26	1.00	2236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB26	1.00	2240		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
ZZZZZZ	1.00	2244		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2248		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV27	1.00	2252		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB27	1.00	2256		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM5	1.00	2300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM5A	1.00	2304	98.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM6	1.00	2308		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MEAGM6A	1.00	2312	104.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCV28	1.00	2316		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB28	1.00	2320		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

24259

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL1
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 12/20/95 End Date: 12/20/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
S0	1.00	1504																X								
S0.2	1.00	1505																X								
S0.5	1.00	1506																X								
S1	1.00	1507																X								
S5	1.00	1508																X								
S10	1.00	1509																X								
ICV	1.00	1510																X								
ICB	1.00	1511																X								
CCV11	1.00	1512																X								
CCB11	1.00	1513																X								
ZZZZZZ	1.00	1514																								
CRA	1.00	1515																X								
ZZZZZZ	1.00	1516																								
ZZZZZZ	1.00	1517																								
ZZZZZZ	1.00	1518																								
ZZZZZZ	1.00	1519																								
ZZZZZZ	1.00	1520																								
ZZZZZZ	1.00	1521																								
ZZZZZZ	1.00	1522																								
ZZZZZZ	1.00	1523																								
ZZZZZZ	1.00	1524																								
CCV12	1.00	1525																X								
CCB12	1.00	1526																X								
ZZZZZZ	1.00	1528																								
ZZZZZZ	1.00	1529																								
ZZZZZZ	1.00	1530																								
ZZZZZZ	1.00	1531																								
ZZZZZZ	1.00	1532																								
ZZZZZZ	1.00	1533																								
ZZZZZZ	1.00	1534																								
ZZZZZZ	1.00	1535																								
ZZZZZZ	1.00	1536																								

24250

00076

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEAGL
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 12/20/95 End Date: 12/20/95

EPA Sample No.	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	
PBS	1.00	1537																X							
CCV13	1.00	1538																X							
CCB13	1.00	1539																X							
LCSS	10.00	1540																X							
MEAGL1	1.00	1541																X							
MEAGL1D	1.00	1542																X							
MEAGL1S	1.00	1543																X							
MEAGL2	1.00	1544																X							
MEAGL3	1.00	1545																X							
MEAGL4	1.00	1546																X							
MEAGL5	1.00	1547																X							
MEAGL6	1.00	1548																X							
MEAGL7	1.00	1549																X							
CCV14	1.00	1550																X							
CCB14	1.00	1551																X							
MEAGL8	1.00	1552																X							
MEAGL9	1.00	1553																X							
MEAGM0	1.00	1554																X							
MEAGM1	1.00	1555																X							
MEAGM2	1.00	1556																X							
MEAGM3	1.00	1557																X							
MEAGM4	1.00	1558																X							
MEAGM5	1.00	1559																X							
MEAGM6	1.00	1600																X							
CCV15	1.00	1601																X							
CCB15	1.00	1603																X							

24250

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24259 SAS No.: SDG No.: MEA
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 12/08/95 End Date: 12/08/95

EPA Sample No.	D/F	Time	% R	Analytes																				
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	I
S200	1.00	1458																						
S100	1.00	1458																						
S50	1.00	1459																						
S20	1.00	1500																						
S10	1.00	1500																						
S0	1.00	1501																						
ICV	1.00	1502																						
ICB	1.00	1502																						
CCV11	1.00	1503																						
CCB11	1.00	1504																						
PBS	1.00	1504																						
LCSS	1.00	1505																						
ZZZZZZ	1.00	1506																						
MEAGL1	1.00	1506																						
MEAGL1D	1.00	1507																						
MEAGL1S	1.00	1508																						
MEAGL2	1.00	1508																						
MEAGL3	1.00	1509																						
MEAGL4	1.00	1510																						
MEAGL5	1.00	1510																						
CCV12	1.00	1511																						
CCB12	1.00	1512																						
MEAGL6	1.00	1512																						
MEAGL7	1.00	1513																						
MEAGL8	1.00	1514																						
MEAGL9	1.00	1514																						
MEAGM0	1.00	1515																						
MEAGM1	1.00	1516																						
MEAGM2	1.00	1516																						
MEAGM3	1.00	1517																						
MEAGM4	1.00	1518																						
MEAGM5	1.00	1518																						

24259

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