



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

102099

DATE: April 25, 1990

SUBJECT: Region III CLP Data QA Review

FROM: Patricia J. Krantz (3ES23) *cpw for*
Chief, Quality Assurance, Region III

TO: Carla Dempsey (OS-230)
QAO, AOB

Attached is a Data Review done at B&V Waste Science and Technology:

CASE NO.: 3-1060198

SITE: Aladdin Plating

LABORATORY: Northeastern Analytical Corp.

REVIEWER: Alan Kaufman

Attachment

cc: EPA site RPM
Edward Kantor, EMSL-LV

WPAS16/CVR
2/1/90

AR300375

PUBLIC LEDGER BUILDING SUITE 272
INDEPENDENCE SQUARE
PHILADELPHIA, PENNSYLVANIA 19106
FAX: (215) 627-6137

DATE: April 25, 1990

SUBJECT: Inorganic Data Validation
Site: Aladdin Plating, SDG#3-1060198

FROM: Alan J. Kaufman
QA/QC Manager

TO: Claudia Walters
EPA Region III CRL Coordinator

OVERVIEW: The sample set, 3-1060198 contained 17 soil samples and one aqueous field blank which were analyzed for Cr only using Contract Laboratory Program QA/QC and CLP deliverables where applicable.

SUMMARY: All samples were successfully analyzed with only minor areas of concern listed below.

MINOR ISSUES: The matrix spike recovery result was outside of the control limit; therefore, all the reported results and quantitation limit may be based low and thusly have been qualified "L" and "UL", respectively.

The duplicate had results just outside of the control limit; therefore, the reported should be qualified estimated but the above qualification supersedes this qualification.

One sample result was incorrectly rounded off. A revised Form I from the laboratory was received to correct this error.

Note: The data was reviewed according to the National Functional Guidelines for Evaluating Inorganic Analyses.

ATTACHMENTS

TABLE 1	SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION
TABLE 2	GLOSSARY OF DATA QUALIFIER CODES
TABLE 3	DATA SUMMARY FORM
APPENDIX A	RESULTS REPORTED BY LABORATORY FORM I

TABLE 1
SUMMARY OF QUALIFIERS ON DATA SUMMARY
AFTER DATA VALIDATION

<u>ANALYTE</u>	<u>SAMPLES AFFECTED</u>	<u>POSITIVE VALUES</u>	<u>NON-DETECTED VALUES</u>	<u>BIAS</u>	<u>COMMENT</u>
Cr	3-1060198 3-1060199 3-1060200 3-1055506 3-1055508 3-1055507 3-1055509 3-1055510 3-1055511 3-1055512 3-1055513 3-1055514 3-1055515 3-1055516 3-1055517 3-1055518 3-1055519 3-1055520 3-1055521	L	UL	Low	A(71.5%)

Note:

A = Due to low matrix spike recovery (% recovery in parentheses), the reported results may be biased low.

TABLE 2

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

[] = Analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

AR300380

TABLE 3

DATA SUMMARY FORM: I N O R G A N I C S

Page 1 of 2

SOIL SAMPLES
(mg/Kg)

Site Name:

Aladdin Plating

Case #: 3-10 60198

Sampling Date(s): 7/22/90

*Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

Sample No.	Dilution Factor	% Solids	Location	55507/5	55508/6	55509/7	55511/8	55512/9	55513/10	55514/11
60198/1	30	78.9	BERM-1	40	10	4	84.1	3		3
86.8	82.5	136-3	BERM-2	61.8	76.2	56.4	84.1	93.9	84.2	86.7
128-3			WOODS-1	WOODS-2	WOODS-2	WOODS-1	3-4	21-4	13-4	18-4

ANALYTE	40	12	2	40	1	1	1000	2	10	5	20	1	1000	3	0.2	8	1000	1	2	1000	2	10	4	2
Aluminum	Q																							
Antimony																								
Arsenic																								
Barium																								
Beryllium																								
Cadmium																								
Calcium																								
Chromium	55.8																							
Cobalt																								
Copper																								
Iron																								
*Lead																								
Magnesium																								
Manganese																								
Mercury																								
Nickel																								
Potassium																								
Selenium																								
Silver																								
Sodium																								
Thallium																								
Vanadium																								
Zinc																								
Cyanide																								

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

12/88

APPENDIX A
RESULTS REPORTED BY LABORATORY
FORM I'S

0002

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1060198

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-1Level (low/med): LowDate Received: 2-23-90% Solids: 86.8Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1060198	90L-0377-1	7440-47-3	Chromium	55.8			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

AR300383

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1060199

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-2Level (low/med): LowDate Received: 2-23-90% Solids: 82.5Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1060199	90L-0377-2	7440-47-3	Chromium	71.4			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055506

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-4Level (low/med): LowDate Received: 2-23-90% Solids: 78.9Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055506	90L-0377-4	7440-47-3	Chromium	1820			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055507

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-5Level (low/med): LowDate Received: 2-23-90X Solids: 61.8Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	MAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055507	90L-0377-5	7440-47-3	Chromium	3950			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

0006

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055508

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-6Level (low/med): LowDate Received: 2-23-90% Solids: 76.2Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055508	90L-0377-6	7440-47-3	Chromium	1200			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

FORM 1 - 1N

AR300387

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055509

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-7Level (low/med): LowDate Received: 2-23-90% Solids: 56.4Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055509	90L-0377-7	7440-47-3	Chromium	411			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055511

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-8Level (low/med): LowDate Received: 2-23-90% Solids: 84.1Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055511	90L-0377-8	7440-47-3	Chromium	35.9			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055512

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-9Level (low/med): LowDate Received: 2-23-90% Solids: 93.9Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	D	H
3-1055512	90L-0377-9	7440-47-3	Chromium	151			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055513

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-10Level (low/med): LowDate Received: 2-23-90% Solids: 84.2Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055513	90L-0377-10	7440-47-3	Chromium	25.9			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

AR300391

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055514

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-11Level (low/med): LowDate Received: 2-23-90% Solids: 86.7Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055514	90L-0377-11	7440-47-3	Chromium	201			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

0012

EPA SAMPLE NO.

3-1055515

Lab Name: Northeastern Analytical Corp. Contract: _____

Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): Soil

Lab Sample ID: 90L-0377-12

Level (low/med): Low

Date Received: 2-23-90

% Solids: 45.0

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

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055515	90L-0377-12	7440-47-3	Chromium	50.0			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: Medium

Color After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055516

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-13Level (low/med): LowDate Received: 2-23-90% Solids: 77.8Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055516	90L-0377-13	7440-47-3	Chromium	8.0			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055517

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-14Level (low/med): LowDate Received: 2-23-90% Solids: 56.8Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055517	90L-0377-14	7440-47-3	Chromium	39.8			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055518

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-15Level (low/med): LowDate Received: 2-23-90X Solids: 56.7Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055518	90L-0377-15	7440-47-3	Chromium	16.4			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments: _____

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055519

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-16Level (low/med): LowDate Received: 2-23-90% Solids: 56.8Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055519	90L-0377-16	7440-47-3	Chromium	15.7			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055520

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-17Level (low/med): LowDate Received: 2-23-90% Solids: 42.1Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	MAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055520	90L-0377-17	7440-47-3	Chromium	135			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1055521

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SoilLab Sample ID: 90L-0377-18Level (low/med): LowDate Received: 2-23-90% Solids: 60.5Concentration Units (ug/L or mg/kg dry weight): mg/kg dry weight

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1055521	90L-0377-18	7440-47-3	Chromium	59.0			P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: Brown

Clarity Before: _____

Texture: MediumColor After: Yellow

Clarity After: _____

Artifacts: _____

Comments:

0035

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

3-1060200

Lab Name: Northeastern Analytical Corp. Contract: _____Lab Code: 03117

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WaterLab Sample ID: 90L-0377-3Level (low/med): LowDate Received: 2-23-90

% Solids: _____

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

EPA Sample ID	NAC ID	CAS No.	Analyte	Concentration	C	Q	M
3-1060200	90L-0377-3	7440-47-3	Chromium	6.3	U		P
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				
		7440-47-3	Chromium				

Color Before: ColorlessClarity Before: Clear

Texture: _____

Color After: ColorlessClarity After: Clear

Artifacts: _____

Comments: _____

FORM I - IN

AR300400

DRD: [] ACTION M FYI

Region 11

INORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO. 3-1060198

LABORATORY Northwestern Analytical

SDG NO. 3-1060198

DATA USER B/WST/Region III

SOW 7/87

REVIEW COMPLETION DATE 4/24/90

NO. OF SAMPLES 18 MATRIX 17 soils and 1 aqueous field blank

REVIEWER ☐ ESD ☐ ESAT ☒ OTHER, CONTRACT/CONTRACTOR: BNWST

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	0			
2. INITIAL CALIBRATIONS	0			
3. CONTINUING CALIBRATIONS	0			
4. FIELD BLANKS ("F" = not applicable)	0			
5. LABORATORY BLANKS				
6. ICS	0			
7. LCS	0			
8. DUPLICATE ANALYSIS	M			
9. MATRIX SPIKE	M			
10. MSA				
11. SERIAL DILUTION	0			
12. SAMPLE VERIFICATION	0			
13. REGIONAL QC ("F" = not applicable)	F			
14. OVERALL ASSESSMENT	M			

O = No problems or minor problems that do not affect data usability.
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.
A = DPO action requested; use in conjunction with one of the above codes.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: _____

AR300401

AR300402