UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
EPA HOUSTON LABORATORY
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

RESUBMITTED DATA REVIEW REPORT

DATE: January 22, 1997 **CASE #:** 25159

_____ **SDG #:** MFGZ44

TO: L. Biasco 6SF-RA **SITE NAME:** WILCOX OIL

USEPA Region 6 **LAB NAME:** ARI

FROM: Linda Hoffman **REF:** TDF #6-7111A

ESAT - Region 6 ESAT File No. I2073

EFFECTS OF RESUBMITTED INFORMATION ON THE ORIGINAL DATA:

Response to CCS (Received 01/15/97)

The resubmitted information does not change the original data review comments. The laboratory responded to CCS and resubmitted Forms 1 and 14 and some raw data pages. The resubmitted Form 1's should replace the ones originally submitted. On the resubmitted Form 14's, the laboratory added a standard out of sequence to the calibration standards. The reviewer can not ascertain why the laboratory made this addition to Form 14 because the Region no longer has the data package. This added standard appears to be incorrect, but the user should verify this with the raw data. The user needs to make sure the resubmitted raw data pages are identical except for any corrections before replacing them with the originals.

9417633

COVER SHEET

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE SCREENING (CCS)

Response To: (Check One) _____ Organic CCS

✓ Inorganic CCS

L14

Response materials should be sent to the attention of the CCS Coordinator.

Labcode: ARI

Response Date: 1/14/97

Date Screening Results Received at Laboratory: ~~TE~~ 1/2/97

EPA Contract No. 68-D5-0134

Case No. 25159

SDG No. MFGZ44

Sample Nos.*

Only list sample numbers that require reconciliation.

This form is used to identify materials sent in response to results of Contract Compliance Screening (CCS). A separate form must accompany the response for each SDG.

Please indicate (on the attached continuation form) which fractions and/or which criteria correspond with your resubmission. Response materials sent to CCS should also be copied to the Region with this blue Cover Sheet.

LABORATORY RESPONSE TO RESULTS OF CCS

CRITERION	COMMENTS
AA17.2	Raw data average is incorrect: Yes this
	is a problem with our reporting software.
	We have been working with the
	manufacture on this.
AA36	Replicate injections not performed: Replicate
	injections are performed but the
	problem is that again our
	reporting software "Ward" does
	not enter them into the electronic
	deliverables. We have been working
	with them but with little success.
AB05.2	EDD error
AC03.2	EDD error
AF01.1	EDD error
AF01.3	EDD error
AG04.2	CN spiked at wrong concentration: Yes
	it was This is non contract compliant.
AH04	EDD error
AJ05.2	EDD error
AL06	EDD error
AQ08	EDD error
AQ37	Pb spike less than 40% not run at appropriate
	dilution: No Pb was run on MFGZ51 and
	MFGZ54 12/15/96 @ 14:37 & 14:57 respectively
	at a 2X dilution based on high ICP values
	which both were over range. The samples
	were then rerun at 5X @ 16:13 & 16:21

LABORATORY RESPONSE TO RESULTS OF CCS

CRITERION	COMMENTS
AQ37 cont.	with analytic spike recoveries of 98.5%
	for MFQZ51 & 103.0% for MFQZ54.
AQ39.1	EDD error
MD1	All raw data has been resubmitted
	with the exception of the CN data
	which the originals is with
	the region and our copie
	is also bad. Please request a
	copy from region 6.
MD3	Run log Form 14 has been
	corrected and resubmitted.
MD6	All corrected data has been
	resubmitted.

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ44

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373A

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _81.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2200		*	P
7440-36-0	Antimony	12.2	U	N	P
7440-38-2	Arsenic	1.3	B		F
7440-39-3	Barium	21.4	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	406	B		P
7440-47-3	Chromium	5.6			P
7440-48-4	Cobalt	2.3	B		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	4340		*	P
7439-92-1	Lead	6.0			F
7439-95-4	Magnesium	333	B		P
7439-96-5	Manganese	112			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	373	B		P
7782-49-2	Selenium	0.24	U		F
7440-22-4	Silver	0.73	U		P
7440-23-5	Sodium	12.2	U		P
7440-28-0	Thallium	0.31	B		F
7440-62-2	Vanadium	6.5	B		P
7440-66-6	Zinc	7.6			P
	Cyanide	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN ILM04.0

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ45

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373B

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _82.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1400		*	P
7440-36-0	Antimony	11.5	U	N	P
7440-38-2	Arsenic	0.93	B		F
7440-39-3	Barium	15.4	B		P
7440-41-7	Beryllium	0.23	U		P
7440-43-9	Cadmium	0.46	U		P
7440-70-2	Calcium	368	B		P
7440-47-3	Chromium	3.3			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	2880		*	P
7439-92-1	Lead	4.0			F
7439-95-4	Magnesium	247	B		P
7439-96-5	Manganese	67.0			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	190	B		P
7782-49-2	Selenium	0.23	U		F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	11.5	U		P
7440-28-0	Thallium	0.23	B		F
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	6.2			P
	Cyanide	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ46

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373C

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _80.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2170		*	P_
7440-36-0	Antimony_	12.4	U	N	P_
7440-38-2	Arsenic__	2.1	B		F_
7440-39-3	Barium___	30.9	B		P_
7440-41-7	Beryllium	0.25	U		P_
7440-43-9	Cadmium__	0.50	U		P_
7440-70-2	Calcium__	808	B		P_
7440-47-3	Chromium_	4.0			P_
7440-48-4	Cobalt___	2.7	B		P_
7440-50-8	Copper___	3.0	B		P_
7439-89-6	Iron_____	4870		*	P_
7439-92-1	Lead_____	33.9			F_
7439-95-4	Magnesium	425	B		P_
7439-96-5	Manganese	168			P_
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	3.1	B		P_
7440-09-7	Potassium	362	B		P_
7782-49-2	Selenium_	0.25	U		F_
7440-22-4	Silver___	0.74	U		P_
7440-23-5	Sodium___	12.4	U		P_
7440-28-0	Thallium_	0.25	U		F_
7440-62-2	Vanadium_	6.8	B		P_
7440-66-6	Zinc_____	11.6			P_
_____	Cyanide__	0.31	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ47

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373D

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _81.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2550		*	P
7440-36-0	Antimony_	12.1	U	N	P
7440-38-2	Arsenic__	3.9			F
7440-39-3	Barium___	35.8	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium__	0.48	U		P
7440-70-2	Calcium__	12600			P
7440-47-3	Chromium_	6.1			P
7440-48-4	Cobalt___	2.1	B		P
7440-50-8	Copper___	5.5	B		P
7439-89-6	Iron_____	5690		*	P
7439-92-1	Lead_____	117			F
7439-95-4	Magnesium	6260			P
7439-96-5	Manganese	319			P
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	4.7	B		P
7440-09-7	Potassium	436	B		P
7782-49-2	Selenium_	0.24	U	W	F
7440-22-4	Silver___	0.73	U		P
7440-23-5	Sodium___	49.9	B		P
7440-28-0	Thallium_	0.29	B	W	F
7440-62-2	Vanadium_	7.0	B		P
7440-66-6	Zinc_____	31.7			P
	Cyanide__	0.31	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ49

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373E

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _81.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1850		*	P
7440-36-0	Antimony	12.0	U	N	P
7440-38-2	Arsenic	1.1	B		F
7440-39-3	Barium	21.8	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	0.48	U		P
7440-70-2	Calcium	557	B		P
7440-47-3	Chromium	2.8			P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	3400		*	P
7439-92-1	Lead	5.0			F
7439-95-4	Magnesium	324	B		P
7439-96-5	Manganese	93.1			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	280	B		P
7782-49-2	Selenium	0.25	U	W	F
7440-22-4	Silver	0.72	U		P
7440-23-5	Sodium	12.0	U		P
7440-28-0	Thallium	0.25	U		F
7440-62-2	Vanadium	4.9	B		P
7440-66-6	Zinc	8.0			P
	Cyanide	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ50

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373F

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _82.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1790		*	P_
7440-36-0	Antimony_	12.0	U	N	P_
7440-38-2	Arsenic__	1.3	B		F_
7440-39-3	Barium___	24.0	B		P_
7440-41-7	Beryllium	0.24	U		P_
7440-43-9	Cadmium__	0.48	U		P_
7440-70-2	Calcium__	628	B		P_
7440-47-3	Chromium_	2.9			P_
7440-48-4	Cobalt___	1.9	B		P_
7440-50-8	Copper___	1.7	B		P_
7439-89-6	Iron_____	3550		*	P_
7439-92-1	Lead_____	15.8			F_
7439-95-4	Magnesium	337	B		P_
7439-96-5	Manganese	113			P_
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	3.6	B		P_
7440-09-7	Potassium	313	B		P_
7782-49-2	Selenium_	0.24	U		F_
7440-22-4	Silver___	0.72	U		P_
7440-23-5	Sodium___	12.0	U		P_
7440-28-0	Thallium_	0.24	B		F_
7440-62-2	Vanadium_	5.0	B		P_
7440-66-6	Zinc_____	8.0			P_
_____	Cyanide__	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ56

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373G

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _79.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3430		*	P
7440-36-0	Antimony	12.2	U	N	P
7440-38-2	Arsenic	1.3	B		F
7440-39-3	Barium	31.8	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	947	B		P
7440-47-3	Chromium	4.4			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	4570		*	P
7439-92-1	Lead	116			F
7439-95-4	Magnesium	423	B		P
7439-96-5	Manganese	96.4			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	5.9	B		P
7440-09-7	Potassium	480	B		P
7782-49-2	Selenium	0.25	U		F
7440-22-4	Silver	0.73	U		P
7440-23-5	Sodium	17.8	B		P
7440-28-0	Thallium	0.25	U		F
7440-62-2	Vanadium	7.2	B		P
7440-66-6	Zinc	36.3			P
	Cyanide	0.31	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ57

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373H

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _86.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4060		*	P
7440-36-0	Antimony	11.5	U	N	P
7440-38-2	Arsenic	2.3			F
7440-39-3	Barium	34.8	B		P
7440-41-7	Beryllium	0.23	U		P
7440-43-9	Cadmium	0.72	B		P
7440-70-2	Calcium	1750			P
7440-47-3	Chromium	7.2			P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	11.4			P
7439-89-6	Iron	6910		*	P
7439-92-1	Lead	369			F
7439-95-4	Magnesium	774	B		P
7439-96-5	Manganese	209			P
7439-97-6	Mercury	0.18			CV
7440-02-0	Nickel	5.4	B		P
7440-09-7	Potassium	680	B		P
7782-49-2	Selenium	0.23	U	W	F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	14.2	B		P
7440-28-0	Thallium	0.27	B		F
7440-62-2	Vanadium	9.8	B		P
7440-66-6	Zinc	132			P
	Cyanide	0.29	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN ILM04.0

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ58

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373I

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _72.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9090		*	P
7440-36-0	Antimony	12.7	U	N	P
7440-38-2	Arsenic	1.5	B		F
7440-39-3	Barium	89.0			P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.51	U		P
7440-70-2	Calcium	1240	B		P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	127			P
7439-89-6	Iron	11200		*	P
7439-92-1	Lead	55049			F
7439-95-4	Magnesium	1050	B		P
7439-96-5	Manganese	414			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	10.1			P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium	0.26	U	W	F
7440-22-4	Silver	0.76	U		P
7440-23-5	Sodium	2330			P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	19.5			P
7440-66-6	Zinc	25.7			P
	Cyanide	0.35	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN ILM04.0

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ64

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373J

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _83.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5350		*	P
7440-36-0	Antimony	11.8	U	N	P
7440-38-2	Arsenic	1.8	B		F
7440-39-3	Barium	47.6			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.47	U		P
7440-70-2	Calcium	4950			P
7440-47-3	Chromium	7.7			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	10.6			P
7439-89-6	Iron	9570		*	P
7439-92-1	Lead	251			F
7439-95-4	Magnesium	957	B		P
7439-96-5	Manganese	174			P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	8.6	B		P
7440-09-7	Potassium	795	B		P
7782-49-2	Selenium	0.23	U	W	F
7440-22-4	Silver	0.71	U		P
7440-23-5	Sodium	70.6	B		P
7440-28-0	Thallium	0.39	B	W	F
7440-62-2	Vanadium	16.8			P
7440-66-6	Zinc	70.1			P
	Cyanide	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN ILM04.0

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MFGZ65

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.: MFGZ44

Matrix (soil/water): SOIL_ Lab Sample ID: 5373K

Level (low/med): LOW__ Date Received: 11/19/96

% Solids: _83.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5110		*	P
7440-36-0	Antimony	12.0	U	N	P
7440-38-2	Arsenic	2.0	B		F
7440-39-3	Barium	46.2	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	0.48	U		P
7440-70-2	Calcium	4540			P
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	11.4			P
7439-89-6	Iron	6330		*	P
7439-92-1	Lead	260			F
7439-95-4	Magnesium	1030	B		P
7439-96-5	Manganese	164			P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	8.9	B		P
7440-09-7	Potassium	762	B		P
7782-49-2	Selenium	0.23	U	W	F
7440-22-4	Silver	0.72	U		P
7440-23-5	Sodium	56.1	B		P
7440-28-0	Thallium	0.35	B		F
7440-62-2	Vanadium	14.7			P
7440-66-6	Zinc	69.7			P
	Cyanide	0.30	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: ORANGE___ Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN ILM04.0

000026 BH 01/08/97

12-04-1996 14:44:43

CCB

BH 01/03/97

BASELINE: 1.06
RAW PEAK: 2.8
PEAK HEIGHT: 1.74
CONCENTRATION = 0.01 ppb U

CLIENT ID : MFGZ50
RESULTS FOR SAMPLE 5373 F SCM
12-04-1996 14:47:07

BASELINE: 1.54
RAW PEAK: 6.6
PEAK HEIGHT: 5.06
CONCENTRATION = 0.02 ppb U

CLIENT ID : MFGZ56
RESULTS FOR SAMPLE 5373 G SCM
12-04-1996 14:49:10

BASELINE: 2.63
RAW PEAK: 15
PEAK HEIGHT: 12.37
CONCENTRATION = 0.05 ppb U

CLIENT ID : MFGZ57
RESULTS FOR SAMPLE 5373 H SCM
12-04-1996 14:51:22

BASELINE: 2.89
RAW PEAK: 78
PEAK HEIGHT: 75.11
CONCENTRATION = 0.34 ppb

CLIENT ID : MFGZ58
RESULTS FOR SAMPLE 5373 I SCM
12-04-1996 14:53:32

BASELINE: 3.46
RAW PEAK: 13.4
PEAK HEIGHT: 9.939999
CONCENTRATION = 0.04 ppb U

CLIENT ID : MFGZ64
RESULTS FOR SAMPLE 5373 J SCM
12-04-1996 14:55:41

BASELINE: 1.85
RAW PEAK: 40
PEAK HEIGHT: 38.15
CONCENTRATION = 0.17 ppb

CLIENT ID : MFGZ65
RESULTS FOR SAMPLE 5373 K SCM
12-04-1996 14:57:34

BASELINE: -2.51
RAW PEAK: 33.4
PEAK HEIGHT: 35.91
CONCENTRATION = 0.16 ppb

BASELINE: 18.38
RAW PEAK: 21.6
PEAK HEIGHT: 3.219999
CONCENTRATION = 0.01 ppb U

CLIENT ID : MFGZ46
RESULTS FOR SAMPLE 5373 C SCM
12-04-1996 14:23:48

BASELINE: 24.63
RAW PEAK: 31.6
PEAK HEIGHT: 6.97
CONCENTRATION = 0.03 ppb U

CLIENT ID : MFGZ47
RESULTS FOR SAMPLE 5373 D SCM
12-04-1996 14:25:34

BASELINE: 31.25
RAW PEAK: 45.4
PEAK HEIGHT: 14.15001
CONCENTRATION = 0.06 ppb U

CLIENT ID : MFGZ49
RESULTS FOR SAMPLE 5373 E SCM
12-04-1996 14:27:50

BASELINE: 36.71
RAW PEAK: 40.4
PEAK HEIGHT: 3.690003
CONCENTRATION = 0.02 ppb U

CLIENT ID : CCV
RESULTS FOR SAMPLE CCV
12-04-1996 14:29:27

BASELINE: 42.47
RAW PEAK: 617.6
PEAK HEIGHT: 575.13
CONCENTRATION = 2.96 ppb

CLIENT ID : CCB
RESULTS FOR SAMPLE CCB
12-04-1996 14:31:11

BASELINE: 41.46
RAW PEAK: 40
PEAK HEIGHT: -1.459999
CONCENTRATION = -0.01 ppb U

CLIENT ID : CCV
RESULTS FOR SAMPLE CCV
12-04-1996 14:42:56

BASELINE: 2.4
RAW PEAK: 589
PEAK HEIGHT: 586.6
CONCENTRATION = 3.03 ppb

PHOTOMETRY/CN 11/26/96 10:55

ID	ABS	CONC

PHOTOMETRY/CLP CN 11/26/96 11:48

ID	ABS	CONC	
STD 1	0.011	0.000	S0
STD 2	0.022	5.000	S5
STD 3	0.032	10.00	S10
STD 4	0.116	50.00	S50
STD 5	0.219	100.0	S100
STD 6	0.423	200.0	S200

K= 485.5 A0= 0.012

PHOTOMETRY/CLP CN 11/26/96 11:53

ID	ABS	CONC	F
ICV 7	0.225	103.3	

PHOTOMETRY/CLP CN 11/26/96 11:53

N= 299 MEAN= 15.01 SD= 39.63 CV= 264.0

ICB 8	0.013	0.503	LO	
CCV 9	0.210	96.27		

PHOTOMETRY/CLP CN 11/26/96 11:55

N= 301 MEAN= 15.23 SD= 39.78 CV= 261.1

CCB 10	0.011	-0.207	LO		
PBS 11	0.012	0.148	LO		
DWLS 12	0.106	45.90			
LCS 13	0.230	106.1			
MFG2661 14	0.014	0.859	LO	5374	A
MFG2660 15	0.014	1.096	LO		ADUP
MFG2665 16	0.311	145.1			ASPK
MFG2665 17	0.309	144.0			ASPK
MFG244 18	0.013	0.740	LO	5373	A
MFG244D 19	0.013	0.740	LO		ADUP
CCV 20	0.207	94.73			

PHOTOMETRY/CLP CN 11/26/96 12:03

N= 312 MEAN= 16.43 SD= 41.07 CV= 250.0

01/08/97

CCB 21	0.011	-0.444	LO		
MFG244 22	0.308	143.6		5373	ASPK
MFG244S 23	0.314	146.8			ASPK
MFG245 24	0.013	0.740	LO		B
MFG246 25	0.014	0.977	LO		C
MFG247 26	0.013	0.622	LO		D
MFG244 27	0.012	0.266	LO		E
MFG250 28	0.013	0.622	LO		F
MFG250 29	0.020	3.822	LO		G
CCV 30	0.210	96.03			

PHOTOMETRY/CLP CN 11/26/96 12:11

N= 322 MEAN= 17.14 SD= 41.98 CV= 245.0

CCB 12:11 .015
MFG257 .021
MFG258 .014
CCV 12:14 .210
CCB 12:15 .010

00030.1

CLP CN Distillation Log | Batch Date/time: 11/25/96 16:20 | SDG #: MFGZ 66 / 44 | ARI #: 5374/5373 | Analyst: SRS

Comments and notes regarding distillation procedure:
- all distillations = 500 mL sample unless mldl
- all spikes at 2.5 mL 10 mg/L Std

Physical descriptors:
Color: red, yellow, green, white, brown, black, colorless, etc.
Clarity: clear, cloudy, opaque
Texture: fine (powdery), medium (sand), coarse (rocks etc.)
Artifacts: yes or leave blank if none

Sample ID ARI #	Sample ID Client #	Sample Pre-testing pH	Chlorine	Sulfide	Distillation Volume (mL) Weight (g)	Final Volume (ml)	Spikes & Standards mL added	Std Conc. (µg/L)	NOTES: enter brief physical description of sample	Color	Clarity	Texture	Artifacts
matrix	~~BLANK~~ ICV	N APPLIC	N. APPLIC	N. APPLIC	50 mL	50 mL	.5 mL	ICV-6	before / after	EPA	REF MATL	ICV 6	(1191)
matrix	PBS								before / after				
matrix	DMLS						50 mL	50 µg/L	before / after	N HSE STD.			
matrix	LLSS				1.0033				before / after	EPA	REF MATL	0084	
5374 A1 matrix	MFGZ 66				1.0012				before / after				
A1dup matrix	MFGZ 66D				1.0056				before / after				
A1spk matrix	MFGZ 66S				1.0028		.75 mL	10 ppm	before / after	N HSE STD.			
5374 A1spk matrix	MFGZ 66S				1.0029		.75 mL	10 ppm	before / after	N HSE STD.			
5373 A1 matrix	MFGZ 44				1.0073				before / after				
A1dup matrix	MFGZ 44D				1.0025				before / after				
A1spk matrix	MFGZ 44S				1.0038		.75 mL	10 ppm	before / after	N HSE STD.			
A1spk matrix	MFGZ 44S				1.0032		.75 mL	10 ppm	before / after	N HSE STD.			
B matrix	MFGZ ~~44~~ 45				1.0064				before / after				
C matrix	MFGZ 46				1.0009				before / after				
D matrix	MFGZ 47				1.0027				before / after				
E matrix	MFGZ 49				1.0071				before / after				
F matrix	MFGZ 50				1.0035				before / after				
G matrix	MFGZ 56				1.0049				before / after				
H matrix	MFGZ 57				1.0057				before / after				
5373 I matrix	MFGZ 58				1.0027				before / after				
matrix	SRS 11/25/96				SRS 11/25/96				before / after				
matrix	SRS 11/25/96								before / after				

SRS 11/25/96

N W/ TE ICV, MLS, LLSS

SRS 11/25/96

000430

000305

6149F

ANALYTICAL RESOURCES, INCORPORATED

Revision 1
1/15/96

FAHI (1) of (2)
NSJ 12-12-96

INSTRUMENT: TJA ICP 01

12:24 BH 01/09/97

Standardization Rpt. Thu 12-12-96 ~~12:31:53~~ PM page 1

SO

Method: ICPCLP1 Standard: STD1-Blank

Elem	AG	AL	AS	B	BA	BE	CA
Avge	-.0333	.4719	.0733	.0195	.0014	.0962	.0205
SDev	.0044	.0392	.0044	.0030	.0014	.0016	.0054
%RSD	13.09	8.303	5.951	15.23	100.0	1.715	26.41
#1	-.0343	.4271	.0743	.0229	.0000	.0943	.0143
#2	-.0371	.5000	.0686	.0186	.0014	.0971	.0243
#3	-.0286	.4886	.0771	.0171	.0029	.0971	.0229

Elem	CD	CO	CR	CU	FE	K	MG
Avge	.0143	.0095	.0133	.0581	.0376	-.1029	.0105
SDev	.0050	.0008	.0016	.0016	.0046	.0330	.0016
%RSD	34.64	8.660	12.37	2.839	12.21	32.03	15.75
#1	.0171	.0100	.0143	.0571	.0429	-.1371	.0086
#2	.0086	.0100	.0143	.0571	.0357	-.0714	.0114
#3	.0171	.0086	.0114	.0600	.0343	-.1000	.0114

Elem	MN	MO	NA	NI	PB	SB	SE
Avge	.0057	.0038	.5810	-.0786	.0352	.0257	.0338
SDev	.0014	.0033	.0081	.0076	.0064	.0422	.0175
%RSD	25.00	86.60	1.398	9.621	18.28	164.0	51.63
#1	.0043	.0000	.5900	-.0757	.0286	.0671	.0186
#2	.0071	.0057	.5743	-.0729	.0357	.0271	.0300
#3	.0057	.0057	.5786	-.0871	.0414	-.0171	.0529

Elem	SI	SN	SR	TI	TL	V	ZN
Avge	.1571	.0029	.0586	.0190	-.0505	-.0095	.0114
SDev	.0124	.0103	.0000	.0016	.0059	.0165	.0000
%RSD	7.925	360.6	.0000	8.660	11.78	173.2	.0000
#1	.1486	-.0057	.0586	.0200	-.0457	-.0286	.0114
#2	.1514	.0143	.0586	.0171	-.0486	.0000	.0114
#3	.1714	.0000	.0586	.0200	-.0571	.0000	.0114

BH 01/09/97

Standardization Rpt. Thu 12-12-96 ~~12:39:02~~ 12:34 PM page 1

Method: ICPCLP1 Standard: STD2 S

Elem	BA	CA	CD	CO	CR	CU	MN
Avge	54.71	24.12	56.54	25.92	17.47	64.59	30.93
SDev	.35	.05	.07	.08	.05	.41	.12
%RSD	.6318	.2177	.1233	.2950	.3014	.6386	.3921
#1	54.59	24.13	56.61	25.91	17.45	64.37	30.86
#2	54.44	24.06	56.47	25.84	17.43	64.33	30.87
#3	55.10	24.16	56.55	25.99	17.53	65.07	31.07

Elem	V
Avge	65.02
SDev	.26
%RSD	.3963
#1	64.89
#2	64.84
#3	65.31

12:39 BH 01/09/97

Standardization Rpt. Thu 12-12-96 ~~12:43:20~~ PM page 1

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Method: ICPCLP1 Standard: STD5

Elem	K
Avge	13.03
SDev	.04
%RSD	.2933
#1	13.08
#2	13.02
#3	13.00

Standardization Rpt. Thu 12-12-96 ~~12:48:00~~ 12:43 PM page 1

BH 01/09/97

S

Method: ICPCLP1 Standard: STD4

Elem	MO	SB	SI	SN	TI
Avge	20.61	17.63	29.16	9.991	57.52
SDev	.11	.09	.08	.028	.21
%RSD	.5264	.5315	.2882	.2839	.3583
#1	20.50	17.52	29.17	9.969	57.34
#2	20.72	17.70	29.23	10.02	57.74
#3	20.63	17.67	29.07	9.981	57.47

N0154 : RERUN STD. 3

Not USED 01/09/97

Standardization Rpt. Thu 12-12-96 ~~12:53:01~~ 12:48 PM page 1

Method: ICPCLP1 Standard: STD3

Elem	AG	AL	AS	B	BE	FE	MG
Avge	3.417	30.63	10.04	24.88	171.6	25.43	7.649
SDev	.038	.43	.07	.38	2.8	.31	.190
%RSD	1.123	1.408	.7103	1.540	1.615	1.221	2.490
#1	3.444	30.90	10.07	25.05	173.2	25.60	7.803
#2	3.373	30.14	9.960	24.44	168.4	25.07	7.436
#3	3.433	30.86	10.09	25.15	173.1	25.61	7.707

Elem	NA	NI	PB	SE	SR	TL	ZN
Avge	46.51	54.27	13.37	7.251	50.40	10.36	9.810
SDev	.67	.80	.12	.152	.79	.16	.096
%RSD	1.441	1.482	.9144	2.093	1.558	1.568	.9737
#1	46.96	54.93	13.49	7.354	50.81	10.43	9.887
#2	45.74	53.37	13.24	7.077	49.49	10.17	9.703
#3	46.84	54.50	13.37	7.323	50.89	10.47	9.839

BH 01/05/97

Standardization Rpt. S Thu 12-12-96 ~~12:56:50~~ 12:54 PM page 1

Method: ICPCLP1 Standard: STD3

Elem	AG	AL	AS	B	BE	FE	MG
Avge	3.432	30.73	10.19	25.16	172.9	25.59	7.665
SDev	.013	.06	.07	.09	.5	.06	.047
%RSD	.3777	.2103	.7220	.3439	.2909	.2482	.6075
#1	3.437	30.74	10.16	25.11	172.7	25.58	7.703
#2	3.417	30.66	10.13	25.12	172.5	25.53	7.613
#3	3.441	30.79	10.27	25.26	173.4	25.65	7.679

Elem	NA	NI	PB	SE	SR	TL	ZN
Avge	46.48	54.44	13.45	7.376	50.49	10.54	9.864
SDev	.09	.18	.05	.042	.15	.10	.027
%RSD	.1898	.3308	.3731	.5706	.2905	.9299	.2764
#1	46.57	54.31	13.49	7.330	50.46	10.44	9.884
#2	46.40	54.37	13.39	7.384	50.36	10.53	9.833
#3	46.46	54.65	13.45	7.413	50.65	10.64	9.874

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.:MFGZ44

Instrument ID Number: TJA SH11 GFA_ Method: F_

Start Date: 12/15/96 End Date: 12/15/96

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	1037													X												
S50	1.00	1141																									
S3	1.00	1045													X												
S10	1.00	1049													X												
S20	1.00	1053													X												
S75	1.00	1057													X												
S50	1.00	1102													X												
ICV	5.00	1106													X												
ICB	1.00	1110													X												
CRA	1.00	1115													X												
CRAA	1.00	1119	98.8												X												
CCV	1.00	1124													X												
CCB	1.00	1128													X												
PBS	1.00	1132													X												
PBSA	1.00	1136	108.3												X												
LCSS	50.00	1141													X												
LCSSA	50.00	1145	90.3												X												
MFGZ44	1.00	1149													X												
MFGZ44A	1.00	1153	96.3												X												
MFGZ44D	1.00	1158													X												
MFGZ44DA	1.00	1202	105.0												X												
MFGZ44S	2.00	1206													X												
MFGZ44SA	2.00	1210	105.3												X												
CCV	1.00	1215													X												
CCB	1.00	1219													X												
MFGZ58	10000.00	1223													X												
MFGZ58A	10000.00	1227	100.0												X												
MFGZ57	50.00	1231													X												
MFGZ57A	50.00	1235	98.3												X												
MFGZ64	50.00	1240													X												
MFGZ64A	50.00	1244	95.5												X												
MFGZ65	50.00	1248													X												

[illegible] 01/13/97

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.:MFGZ44

Instrument ID Number: TJA SH11 GFA_ Method: F_

Start Date: 12/15/96 End Date: 12/15/96

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
MFGZ47	20.00	1514		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ47A	20.00	1518	87.8	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ48	10.00	1521		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ48A	10.00	1524	95.5	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ59	5.00	1528		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ59A	5.00	1531	90.0	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ60	10.00	1534		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ60A	10.00	1538	90.5	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ63	5.00	1541		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ63A	5.00	1544	89.5	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1548		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1552		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ46	5.00	1556		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ46A	5.00	1600	92.3	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ50	5.00	1604		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ50A	5.00	1609	100.0	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ51	5.00	1613		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ51A	5.00	1617	98.5	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ54	5.00	1621		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
MFGZ54A	5.00	1625	103.0	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1630		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1634		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–

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BH 01/13/97

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ANALYTICAL_RESOURCES_INC. Contract: 68D50134__

Lab Code: ARI___ Case No.: 25159_ SAS No.: _____ SDG No.:MFGZ44

Instrument ID Number: TJA SH11 GFA_ Method: F_

Start Date: 12/15/96 End Date: 12/15/96

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
MFGZ65A	50.00	1252	103.8												X												
ZZZZZZ	1.00	1256																									
ZZZZZZA	1.00	1300	109.8																								
CCV	1.00	1305													X												
CCB	1.00	1309													X												
MFGZ45	1.00	1313													X												
MFGZ45A	1.00	1317	104.0												X												
MFGZ46	1.00	1321																									
MFGZ46A	1.00	1325	-9999.9																								
MFGZ49	1.00	1330													X												
MFGZ49A	1.00	1334	105.5												X												
MFGZ50	1.00	1338																									
MFGZ50A	1.00	1342	-9999.9																								
MFGZ56	20.00	1346													X												
MFGZ56A	20.00	1350	98.3												X												
CCV	1.00	1355													X												
CCB	1.00	1359													X												
S50	1.00	1403													X												
CCV	1.00	1407													X												
CCB	1.00	1412													X												
MFGZ52	1.00	1417													X												
MFGZ52A	1.00	1422	98.5												X												
MFGZ55	1.00	1427													X												
MFGZ55A	1.00	1432	93.5												X												
MFGZ51	2.00	1437																									
MFGZ51A	2.00	1442	-9999.9																								
MFGZ53	5.00	1447													X												
MFGZ53A	5.00	1452	92.8												X												
MFGZ54	2.00	1457																									
MFGZ54A	2.00	1502	-9999.9																								
CCV	1.00	1508													X												
CCB	1.00	1511													X												

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BH 02/13/97

Original in SDG MF6244

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

Case No. 25159

1. Project Code: —	Account Code: —	2. Region No.: 6	Sampling Co.: Roy F. Weston	4. Date Shipped: 11/19/96	Carrier: Fed Ex
Regional Information: —		Sampler (Name): Eric Tate		Airbill Number: 7802823346	
Non-Superfund Program: —		Sampler Signature: Eric Tate		5. Ship To: ARF 400 9th Avenue North Seattle, WA 98109 (206) 621-6490 ATTN: Jay Kuhn	
Site Name: Wilcox O.1		3. Purpose* Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI (X); Long-Term Action: FS, RD, RA, O&M, NPLD			
City, State: Bristow, OK	Site Spill ID: ZZ				

6. 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)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MF6248	5	L	G	6		X	X					6-015020	SED05	11/19/96 1430	FFG06	ECT	—
MF6251	5	L	G	6		X	X					6-015032	SED08	11/19/96 1020	FFG09	ECT	—
MF6252	5	L	G	6		X	X					6-015036	SED09	11/19/96 1105	FFG10	ECT	—
MF6253	5	L	G	6		X	X					6-015040	SS01	11/19/96 1210	FFG11	ECT	—
MF6254	5	L	G	6		X	X					6-015044	SS02	11/19/96 1215	FFG12	ECT	—
MF6255	5	L	G	6		X	X					6-015048	SS03	11/19/96 1230	FFG13	ECT	—
MF6259	5	L	G	6		X	X					6-015064	SS07	11/19/96 1405	FFG17	ECT	—
MF6260	5	L	G	6		X	X					6-015068	SS08	11/19/96 1415	FFG18	ECT	D(MF6259)
MF6263	5	L	G	6		X	X					6-015080	SS11	11/19/96 1350	FFG21	ECT	—
MF6266	5	L	G	6		X	X					6-015092	SED10	11/19/96 1535	FFG24	ECT	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 1	MF6266		

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eric Tate	11/19/96 1800	Fed Ex Tulsa, OK			
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	

A21-012-13 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

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

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