UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

November 1, 2013

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Brian Mueller, Superfund Project Manager (6SF-RL)

Site: **FALCON REFINERY**

Case#: **43795**

SDG#: **MF2B63**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report. Antimony target results were rejected due to low QC spike recovery.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

9598553

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: November 1, 2013

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0167
TDF No.:	6-12-996B
ESAT File No.:	I-0631

Attached is the data review summary for Case # 43795
SDG # MF2B63
Site Falcon Refinery

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 43795	SITE Falcon Refinery
LABORATORY MITKEM	NO. OF SAMPLES 7
CONTRACT# EP-W-09-039	MATRIX Sediment
SDG# MF2B63	REVIEWER (IF NOT ESB) ESAT
SOW# ISM01.3	REVIEWER'S NAME Sonya Meekins
SF# 303DD2MC	COMPLETION DATE November 1, 2013

SAMPLE NO.					
	MF2B63	MF2B75			
	MF2B66	MF2B81			
	MF2B69	MF2B84			
	MF2B72				

DATA ASSESSMENT SUMMARY

	ICP	HG
1. HOLDING TIMES	O	O
2. CALIBRATIONS	O	O
3. BLANKS	O	O
4. MATRIX SPIKES	M	O
5. DUPLICATE ANALYSIS	O	O
6. ICP QC	M	
7. LCS	O	
8. SAMPLE VERIFICATION	O	O
9. OTHER QC	N/A	N/A
10. OVERALL ASSESSMENT	M	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: All antimony results are unusable because the antimony matrix spike recovery was below the 30% QC limit. The manganese matrix spike recovery was below the 75% QC limit. The chromium serial dilution difference exceeded the expanded QC limit for soils.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 43795 **SDG** MF2B63 **SITE** Falcon Refinery **LAB** MITKEM

COMMENTS: This SDG consisted of seven sediment samples for total metals (by ICP-AES and ICP-MS) and mercury analyses following SOW ISM01.3. The sampler designated sample MF2B72 for QC analyses.

The SOW requires that the sediment sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

There were no target analytes of concern identified by the client. All samples for ICP-MS were analyzed at 5X dilution only. The laboratory managed to meet the CRQL requirement by lowering the concentration for the low initial calibration standard to 1/5 the CRQLs specified in the SOW. All antimony results are unusable because the antimony matrix spike recovery was below the 30% QC limit.

S3VEM Review was performed for this data package as requested by the TDF. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with matrix spike recoveries and a serial dilution difference. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MAT	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQ	UNITS	ADJCR	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSC	SMPW	FINVOL	METHOD	STATLOC
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7429905	Aluminum	7910		mg/kg	31.3	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440360	Antimony	1.4	UR	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440382	Arsenic	2.0		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440393	Barium	382		mg/kg	7.1	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440417	Beryllium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440439	Cadmium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440702	Calcium	14500		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440473	Chromium	4.4	J	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440484	Cobalt	1.6		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440508	Copper	5.3		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439896	Iron	6640		mg/kg	15.6	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7439921	Lead	5.0		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439954	Magnesium	3880		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439965	Manganese	94.9	J	mg/kg	2.3	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/04/2013	10:36:12	7439976	Mercury	0.020	LJ	mg/kg	0.15	09/12/2013	10/03/2013	09/17/2013	Low	59.2	0.57	100	CV	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440020	Nickel	3.6		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440097	Potassium	2330		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7782492	Selenium	3.5	U	mg/kg	3.5	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440224	Silver	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440235	Sodium	8570		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440280	Thallium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440622	Vanadium	9.0		mg/kg	3.5	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440666	Zinc	33.1		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7429905	Aluminum	5120		mg/kg	21.5	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440360	Antimony	1.3	UR	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440382	Arsenic	1.5		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440393	Barium	191		mg/kg	6.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440417	Beryllium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440439	Cadmium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440702	Calcium	14900		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440473	Chromium	2.9	J	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440484	Cobalt	1.1		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440508	Copper	3.5		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439896	Iron	4270		mg/kg	10.8	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7439921	Lead	2.9		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439954	Magnesium	2450		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439965	Manganese	58.5	J	mg/kg	1.6	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/04/2013	10:37:42	7439976	Mercury	0.017	LJ	mg/kg	0.13	09/12/2013	10/03/2013	09/17/2013	Low	68.4	0.58	100	CV	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440020	Nickel	2.2		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440097	Potassium	1500		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7782492	Selenium	3.1	U	mg/kg	3.1	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440224	Silver	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440235	Sodium	5700		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440280	Thallium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440622	Vanadium	5.5		mg/kg	3.1	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440666	Zinc	21.2		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7429905	Aluminum	25900		mg/kg	46.5	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440360	Antimony	2.6	UR	mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440382	Arsenic	5.4		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440393	Barium	3320		mg/kg	12.9	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440417	Beryllium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440439	Cadmium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440702	Calcium	41000		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440473	Chromium	17.6	J	mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440484	Cobalt	5.0		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440508	Copper	18.0		mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439896	Iron	20500		mg/kg	23.3	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7439921	Lead	22.4		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439954	Magnesium	11800		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439965	Manganese	389	J	mg/kg	3.5	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5

43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/04/2013	10:39:07	7439976	Mercury	0.069	LJ	mg/kg	0.23	09/12/2013	10/03/2013	09/17/2013	Low	37.4	0.58	100	CV	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440020	Nickel	12.2		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440097	Potassium	7140		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7782492	Selenium	6.4	U	mg/kg	6.4	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440224	Silver	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440235	Sodium	21000		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440280	Thallium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440622	Vanadium	30.0		mg/kg	6.4	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440666	Zinc	139		mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7429905	Aluminum	8350		mg/kg	30.5	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440360	Antimony	1.4	UR	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440382	Arsenic	2.9		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440393	Barium	329		mg/kg	6.8	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440417	Beryllium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440439	Cadmium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440702	Calcium	36300		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440473	Chromium	5.8	J	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440484	Cobalt	2.0		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440508	Copper	7.7		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439896	Iron	6930		mg/kg	15.3	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7439921	Lead	5.9		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439954	Magnesium	4080		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439965	Manganese	116	J	mg/kg	2.3	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/04/2013	13:27:44	7439976	Mercury	0.016	LJ	mg/kg	0.16	09/12/2013	10/04/2013	09/17/2013	Low	58.0	0.55	100	CV	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440020	Nickel	4.5		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440097	Potassium	2470		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7782492	Selenium	3.4	U	mg/kg	3.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440224	Silver	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440235	Sodium	9630		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440280	Thallium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440622	Vanadium	11.9		mg/kg	3.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440666	Zinc	38.1		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7429905	Aluminum	13800		mg/kg	33.8	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440360	Antimony	1.7	UR	mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440382	Arsenic	3.9		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440393	Barium	523		mg/kg	8.3	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440417	Beryllium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440439	Cadmium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440702	Calcium	36500		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440473	Chromium	6.3	J	mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440484	Cobalt	2.4		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440508	Copper	6.5		mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439896	Iron	10700		mg/kg	16.9	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7439921	Lead	7.4		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439954	Magnesium	7030		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439965	Manganese	232	J	mg/kg	2.5	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/04/2013	10:30:11	7439976	Mercury	0.064	LJ	mg/kg	0.16	09/12/2013	10/03/2013	09/17/2013	Low	51.9	0.59	100	CV	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440020	Nickel	5.0		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440097	Potassium	3690		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7782492	Selenium	4.2	U	mg/kg	4.2	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440224	Silver	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440235	Sodium	13300		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440280	Thallium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440622	Vanadium	13.1		mg/kg	4.2	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440666	Zinc	39.3		mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7429905	Aluminum	8920		mg/kg	26.8	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440360	Antimony	1.2	UR	mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440382	Arsenic	2.5		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440393	Barium	463		mg/kg	5.8	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440417	Beryllium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440439	Cadmium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5

43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440702	Calcium	17500		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440473	Chromium	6.1	J	mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440484	Cobalt	1.9		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440508	Copper	6.3		mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439896	Iron	7310		mg/kg	13.4	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7439921	Lead	5.8		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439954	Magnesium	4310		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439965	Manganese	111	J	mg/kg	2.0	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/04/2013	10:34:41	7439976	Mercury	0.022	LJ	mg/kg	0.16	09/12/2013	10/03/2013	09/17/2013	Low	58.2	0.53	100	CV	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440020	Nickel	4.4		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440097	Potassium	2490		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7782492	Selenium	2.9	U	mg/kg	2.9	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440224	Silver	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440235	Sodium	10300		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440280	Thallium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440622	Vanadium	10.4		mg/kg	2.9	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440666	Zinc	45.0		mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7429905	Aluminum	16700		mg/kg	36.5	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440360	Antimony	1.8	UR	mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440382	Arsenic	3.8		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440393	Barium	910		mg/kg	8.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440417	Beryllium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440439	Cadmium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440702	Calcium	20800		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440473	Chromium	12.0	J	mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440484	Cobalt	2.8		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440508	Copper	8.9		mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439896	Iron	12900		mg/kg	18.3	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7439921	Lead	116		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439954	Magnesium	7740		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439965	Manganese	180	J	mg/kg	2.7	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/04/2013	10:40:36	7439976	Mercury	0.033	LJ	mg/kg	0.18	09/12/2013	10/03/2013	09/17/2013	Low	47.6	0.58	100	CV	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440020	Nickel	6.4		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440097	Potassium	4530		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7782492	Selenium	4.4	U	mg/kg	4.4	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440224	Silver	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440235	Sodium	16800		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440280	Thallium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440622	Vanadium	14.3		mg/kg	4.4	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440666	Zinc	74.1		mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 43795 SDG No. MF2B63 SDG Nos. To Follow Mod. Ref. No. Date Rec 10/22/13

EPA Lab ID: MITKEM

Lab location: North Kingstown, RI

Region: 6 Audit No.: 43795/MF2B63

Resubmitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited [signature] Sonya Meekins/ESAT Data Reviewer Date 10/31/13

Audited Date

Signature Printed Name/Title

DC-2_

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/16/2013

CarrierName: FedEx

AirbillNo: 7966 3717 6967

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091613-075508-0089

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A68	Soil/ Trent England	Grab	TM+HG(21)	6-451334 (Ice to 4C) (1)	MW-07-0.0-0.5	09/12/2013 10:40		Field Sample
MF2A69	Soil/ Trent England	Grab	TM+HG(21)	6-451339 (Ice to 4C) (1)	MW-07-0.0-0.5 Dup	09/12/2013 10:40		Field Duplicate
MF2A70	Soil/ Trent England	Grab	TM+HG(21)	6-451344 (Ice to 4C) (1)	MW-07-0.5-2.0	09/12/2013 10:50		Field Sample
MF2A71	Soil/ Trent England	Grab	TM+HG(21)	6-451349 (Ice to 4C) (1)	MW-07-2.0-5.0	09/12/2013 11:00		Field Sample
MF2A98	Soil/ Trent England	Grab	TM+HG(21)	6-451484 (Ice to 4C) (1)	TWB-05-0.0-0.5	09/13/2013 14:56		Field Sample
MF2B00	Soil/ Trent England	Grab	TM+HG(21)	6-451494 (Ice to 4C) (1)	TWB-05-2.0-5.0	09/13/2013 15:19		Field Sample
MF2B63	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451733 (Ice to 4C) (1)	SD5-04-0.0-0.5	09/12/2013 09:00		Field Sample
MF2B66	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451745 (Ice to 4C) (1)	SD5-05-0.0-0.5	09/12/2013 10:40		Field Sample
MF2B69	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451757 (Ice to 4C) (1)	SD5-06-0.0-0.5	09/12/2013 12:00		Field Sample
MF2B84	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451819 (Ice to 4C) (1)	SD5-10-0.0-0.5	09/12/2013 14:15		Field Sample

Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.
ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9-16-13	[signature]	09-16-13	0800						
	[signature]	09-16-13	[signature]	09-16-13	0800						
	[signature]	09-16-13									

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USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/16/2013

CarrierName: FedEx

AirbillNo: 7966 3717 8179

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091613-070818-0084

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A03	Soil/ Trent England	Grab	TM+HG(21)	6-451019 (Ice to 4C) (1)	MW-09-0.0-0.5	09/12/2013 13:55		Field Sample
MF2A04	Soil/ Trent England	Grab	TM+HG(21)	6-451024 (Ice to 4C) (1)	MW-09-0.0-0.5 Dup	09/12/2013 13:55		Field Duplicate
MF2A05	Soil/ Trent England	Grab	TM+HG(21)	6-451029 (Ice to 4C) (1)	MW-09-0.5-2.0	09/12/2013 14:05		Field Sample
MF2A06	Soil/ Trent England	Grab	TM+HG(21)	6-451034 (Ice to 4C) (1)	MW-09-2.0-5.0	09/12/2013 14:15		Field Sample
MF2A87	Soil/ Trent England	Grab	TM+HG(21)	6-451429 (Ice to 4C) (1)	TWB-01-2.0-3.0	09/13/2013 08:55		Field Sample
MF2A95	Soil/ Trent England	Grab	TM+HG(21)	6-451469 (Ice to 4C) (1)	TWB-04-0.0-0.5	09/13/2013 11:58		Field Sample
MF2A99	Soil/ Trent England	Grab	TM+HG(21)	6-451489 (Ice to 4C) (1)	TWB-05-0.5-2.0	09/13/2013 15:10		Field Sample
MF2B72	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451769 (Ice to 4C) (1)	SD5-07-0.0-0.5	09/12/2013 13:30		Field Sample
MF2B75	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451783 (Ice to 4C) (1)	SD5-08-0.0-0.5	09/12/2013 15:35		Field Sample
MF2B81	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451807 (Ice to 4C) (1)	SD5-09-0.0-0.5	09/12/2013 16:30		Field Sample

Sample(s) to be used for Lab QC: MF2B72 - Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.

ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	9-16-13	[illegible]	09-16-13	0800						
	Alex Spiller	9-16-13	[illegible]	09-16-13	0800						
	[illegible]	09-16-13									

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ADDENDUM

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	**ICP_AES**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	**ICP_AES**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	**ICP_AES**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84
Blanks	**ICP_AES**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
Blanks	**ICP_AES**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B72L, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, PBS69, MF2B72S
	Cobalt MF2B72L
	Beryllium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69 , MF2B72L
	Selenium MF2B81 , MF2B84 , MF2B69 , MF2B72 , MF2B72D , MF2B75
	Arsenic MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75
Blanks	**ICP_MS**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B72L, MF2B72A
	Cobalt MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75 , MF2B81
	Barium MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Beryllium LCS69 , MF2B72S
	Antimony LCS69 , MF2B72A
	Thallium LCS69 , MF2B72S

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks		ICP_MS
	Cadmium LCS69 , MF2B72S	
	Silver LCS69 , MF2B72S	
	Lead MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81	
Blanks		**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.	
	MF2B81, MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B72A	
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75	
	Selenium MF2B72S	
	Arsenic MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81	
	Cobalt MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81	
	Barium MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81	
	Beryllium LCS69 , MF2B69 , MF2B72S	
	Nickel MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75	
	Antimony LCS69 , MF2B72A	
	Thallium LCS69 , MF2B72S	
	Cadmium LCS69 , MF2B69 , MF2B72S	
	Copper MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81	
	Silver LCS69 , MF2B72S	
	Lead MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75	
Blanks		**ICP_MS**
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.	
	MF2B72, MF2B72S	
	Antimony MF2B72 , MF2B72S	
Blanks		**ICP_MS**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.	
	MF2B81, MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B72A	

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Blanks

Blanks	ICP_MS
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75
	Antimony LCS69 , MF2B72A

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Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, MF2B84
	Mercury MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84

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Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L

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Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69 , MF2B72L
	Selenium MF2B81 , MF2B84 , MF2B69 , MF2B72 , MF2B72D , MF2B75
	Arsenic MF2B72L
	Chromium MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75

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Duplicates

Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Copper MF2B72D

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Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B84

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Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81, MF2B84

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81

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Matrix Spikes

Matrix Spikes	ICP_AES
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Manganese MF2B72S

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Matrix Spikes

Matrix Spikes	ICP_MS
NG07	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Antimony MF2B72S

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Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Arsenic MF2B72L
	Chromium MF2B72L

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Blanks

Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	**ICP_AES**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	**ICP_AES**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84
Blanks	**ICP_AES**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
Blanks	**ICP_AES**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84

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Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B72L, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, PBS69, MF2B72S
	Cobalt MF2B72L
	Beryllium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69 , MF2B72L
	Selenium MF2B81 , MF2B84 , MF2B69 , MF2B72 , MF2B72D , MF2B75
	Arsenic MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75
Blanks	**ICP_MS**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B72L, MF2B72A
	Cobalt MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75 , MF2B81
	Barium MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Beryllium LCS69 , MF2B72S
	Antimony LCS69 , MF2B72A
	Thallium LCS69 , MF2B72S

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Blanks

Blanks	ICP_MS
	Cadmium LCS69 , MF2B72S
	Silver LCS69 , MF2B72S
	Lead MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
Blanks	**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B81, MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B72A
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
	Selenium MF2B72S
	Arsenic MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Cobalt MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Barium MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Beryllium LCS69 , MF2B69 , MF2B72S
	Nickel MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
	Antimony LCS69 , MF2B72A
	Thallium LCS69 , MF2B72S
	Cadmium LCS69 , MF2B69 , MF2B72S
	Copper MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Silver LCS69 , MF2B72S
	Lead MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
Blanks	**ICP_MS**
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B72, MF2B72S
	Antimony MF2B72 , MF2B72S
Blanks	**ICP_MS**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF2B81, MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B72A

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Blanks

Blanks	ICP_MS
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75
	Antimony LCS69 , MF2B72A

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Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, MF2B84
	Mercury MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84

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Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L

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Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69 , MF2B72L
	Selenium MF2B81 , MF2B84 , MF2B69 , MF2B72 , MF2B72D , MF2B75
	Arsenic MF2B72L
	Chromium MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75
	Antimony PBS69 , MF2B72 , MF2B72S
	Cadmium MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75
	Silver MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75

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Duplicates

Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Copper MF2B72D

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Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B84

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Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81, MF2B84

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81

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Matrix Spikes

Matrix Spikes	ICP_AES
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Manganese MF2B72S

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG07	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Antimony MF2B72S

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Arsenic MF2B72L
	Chromium MF2B72L

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7429905	Aluminum	7910		mg/kg	31.3	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440360	Antimony	1.4	UR	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440382	Arsenic	2.0		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440393	Barium	382		mg/kg	7.1	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440417	Beryllium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440439	Cadmium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440702	Calcium	14500		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440473	Chromium	4.4	J	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440484	Cobalt	1.6		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440508	Copper	5.3		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439896	Iron	6640		mg/kg	15.6	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7439921	Lead	5.0		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439954	Magnesium	3880		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7439965	Manganese	94.9	J	mg/kg	2.3	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/04/2013	10:36:12	7439976	Mercury	0.020	LJ	mg/kg	0.15	09/12/2013	10/03/2013	09/17/2013	Low	59.2	0.57	100	CV	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440020	Nickel	3.6		mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440097	Potassium	2330		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7782492	Selenium	3.5	U	mg/kg	3.5	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440224	Silver	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	09/30/2013	18:07:58	7440235	Sodium	8570		mg/kg	782	09/12/2013	09/27/2013	09/17/2013	Low	59.2	1.08	100	P	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440280	Thallium	0.71	U	mg/kg	0.71	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440622	Vanadium	9.0		mg/kg	3.5	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B63	M1740-04A	S	Field_Sample	10/02/2013	11:46:30	7440666	Zinc	33.1		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	59.2	1.19	100	MS	SD5-04-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7429905	Aluminum	5120		mg/kg	21.5	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440360	Antimony	1.3	UR	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440382	Arsenic	1.5		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440393	Barium	191		mg/kg	6.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440417	Beryllium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440439	Cadmium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440702	Calcium	14900		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440473	Chromium	2.9	J	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440484	Cobalt	1.1		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440508	Copper	3.5		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439896	Iron	4270		mg/kg	10.8	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7439921	Lead	2.9		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439954	Magnesium	2450		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7439965	Manganese	58.5	J	mg/kg	1.6	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/04/2013	10:37:42	7439976	Mercury	0.017	LJ	mg/kg	0.13	09/12/2013	10/03/2013	09/17/2013	Low	68.4	0.58	100	CV	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440020	Nickel	2.2		mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440097	Potassium	1500		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7782492	Selenium	3.1	U	mg/kg	3.1	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440224	Silver	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	09/30/2013	18:11:41	7440235	Sodium	5700		mg/kg	538	09/12/2013	09/27/2013	09/17/2013	Low	68.4	1.36	100	P	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440280	Thallium	0.63	U	mg/kg	0.63	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440622	Vanadium	5.5		mg/kg	3.1	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B66	M1740-05A	S	Field_Sample	10/02/2013	11:51:15	7440666	Zinc	21.2		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	68.4	1.17	100	MS	SD5-05-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7429905	Aluminum	25900		mg/kg	46.5	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440360	Antimony	2.6	UR	mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440382	Arsenic	5.4		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440393	Barium	3320		mg/kg	12.9	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440417	Beryllium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440439	Cadmium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440702	Calcium	41000		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440473	Chromium	17.6	J	mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440484	Cobalt	5.0		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440508	Copper	18.0		mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439896	Iron	20500		mg/kg	23.3	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7439921	Lead	22.4		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439954	Magnesium	11800		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7439965	Manganese	389	J	mg/kg	3.5	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/04/2013	10:39:07	7439976	Mercury	0.069	LJ	mg/kg	0.23	09/12/2013	10/03/2013	09/17/2013	Low	37.4	0.58	100	CV	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440020	Nickel	12.2		mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440097	Potassium	7140		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5

43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7782492	Selenium	6.4	U	mg/kg	6.4	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440224	Silver	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	09/30/2013	18:15:24	7440235	Sodium	21000		mg/kg	1160	09/12/2013	09/27/2013	09/17/2013	Low	37.4	1.15	100	P	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440280	Thallium	1.3	U	mg/kg	1.3	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440622	Vanadium	30.0		mg/kg	6.4	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B69	M1740-06A	S	Field_Sample	10/02/2013	11:55:59	7440666	Zinc	139		mg/kg	2.6	09/12/2013	10/01/2013	09/17/2013	Low	37.4	1.04	100	MS	SD5-06-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7429905	Aluminum	8350		mg/kg	30.5	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440360	Antimony	1.4	UR	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440382	Arsenic	2.9		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440393	Barium	329		mg/kg	6.8	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440417	Beryllium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440439	Cadmium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440702	Calcium	36300		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440473	Chromium	5.8	J	mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440484	Cobalt	2.0		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440508	Copper	7.7		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439896	Iron	6930		mg/kg	15.3	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7439921	Lead	5.9		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439954	Magnesium	4080		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7439965	Manganese	116	J	mg/kg	2.3	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/04/2013	13:27:44	7439976	Mercury	0.016	LJ	mg/kg	0.16	09/12/2013	10/04/2013	09/17/2013	Low	58.0	0.55	100	CV	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440020	Nickel	4.5		mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440097	Potassium	2470		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7782492	Selenium	3.4	U	mg/kg	3.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440224	Silver	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	09/30/2013	17:45:46	7440235	Sodium	9630		mg/kg	763	09/12/2013	09/27/2013	09/17/2013	Low	58.0	1.13	100	P	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440280	Thallium	0.68	U	mg/kg	0.68	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440622	Vanadium	11.9		mg/kg	3.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B72	M1740-01A	S	Field_Sample	10/02/2013	11:13:10	7440666	Zinc	38.1		mg/kg	1.4	09/12/2013	10/01/2013	09/17/2013	Low	58.0	1.27	100	MS	SD5-07-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7429905	Aluminum	13800		mg/kg	33.8	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440360	Antimony	1.7	UR	mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440382	Arsenic	3.9		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440393	Barium	523		mg/kg	8.3	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440417	Beryllium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440439	Cadmium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440702	Calcium	36500		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440473	Chromium	6.3	J	mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440484	Cobalt	2.4		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440508	Copper	6.5		mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439896	Iron	10700		mg/kg	16.9	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7439921	Lead	7.4		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439954	Magnesium	7030		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7439965	Manganese	232	J	mg/kg	2.5	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/04/2013	10:30:11	7439976	Mercury	0.064	LJ	mg/kg	0.16	09/12/2013	10/03/2013	09/17/2013	Low	51.9	0.59	100	CV	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440020	Nickel	5.0		mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440097	Potassium	3690		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7782492	Selenium	4.2	U	mg/kg	4.2	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440224	Silver	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	09/30/2013	18:00:37	7440235	Sodium	13300		mg/kg	845	09/12/2013	09/27/2013	09/17/2013	Low	51.9	1.14	100	P	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440280	Thallium	0.83	U	mg/kg	0.83	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440622	Vanadium	13.1		mg/kg	4.2	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B75	M1740-02A	S	Field_Sample	10/02/2013	11:37:00	7440666	Zinc	39.3		mg/kg	1.7	09/12/2013	10/01/2013	09/17/2013	Low	51.9	1.16	100	MS	SD5-08-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7429905	Aluminum	8920		mg/kg	26.8	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440360	Antimony	1.2	UR	mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440382	Arsenic	2.5		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440393	Barium	463		mg/kg	5.8	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440417	Beryllium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440439	Cadmium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440702	Calcium	17500		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440473	Chromium	6.1	J	mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440484	Cobalt	1.9		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440508	Copper	6.3		mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439896	Iron	7310		mg/kg	13.4	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7439921	Lead	5.8		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5

43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439954	Magnesium	4310		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7439965	Manganese	111	J	mg/kg	2.0	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/04/2013	10:34:41	7439976	Mercury	0.022	LJ	mg/kg	0.16	09/12/2013	10/03/2013	09/17/2013	Low	58.2	0.53	100	CV	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440020	Nickel	4.4		mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440097	Potassium	2490		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7782492	Selenium	2.9	U	mg/kg	2.9	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440224	Silver	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	09/30/2013	18:04:14	7440235	Sodium	10300		mg/kg	671	09/12/2013	09/27/2013	09/17/2013	Low	58.2	1.28	100	P	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440280	Thallium	0.58	U	mg/kg	0.58	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440622	Vanadium	10.4		mg/kg	2.9	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B81	M1740-03A	S	Field_Sample	10/02/2013	11:41:45	7440666	Zinc	45.0		mg/kg	1.2	09/12/2013	10/01/2013	09/17/2013	Low	58.2	1.47	100	MS	SD5-09-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7429905	Aluminum	16700		mg/kg	36.5	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440360	Antimony	1.8	UR	mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440382	Arsenic	3.8		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440393	Barium	910		mg/kg	8.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440417	Beryllium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440439	Cadmium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440702	Calcium	20800		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440473	Chromium	12.0	J	mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440484	Cobalt	2.8		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440508	Copper	8.9		mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439896	Iron	12900		mg/kg	18.3	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7439921	Lead	116		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439954	Magnesium	7740		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7439965	Manganese	180	J	mg/kg	2.7	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/04/2013	10:40:36	7439976	Mercury	0.033	LJ	mg/kg	0.18	09/12/2013	10/03/2013	09/17/2013	Low	47.6	0.58	100	CV	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440020	Nickel	6.4		mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440097	Potassium	4530		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7782492	Selenium	4.4	U	mg/kg	4.4	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440224	Silver	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	09/30/2013	18:19:01	7440235	Sodium	16800		mg/kg	913	09/12/2013	09/27/2013	09/17/2013	Low	47.6	1.15	100	P	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440280	Thallium	0.88	U	mg/kg	0.88	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440622	Vanadium	14.3		mg/kg	4.4	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5
43795	MF2B63	MF2B84	M1740-07A	S	Field_Sample	10/02/2013	12:00:44	7440666	Zinc	74.1		mg/kg	1.8	09/12/2013	10/01/2013	09/17/2013	Low	47.6	1.2	100	MS	SD5-10-0.0-0.5