



Saturday, August 20, 2016

Karen Waters-Husted
CH2M HILL Plateau Remediation Company
2420 Stevens Center
Richland, WA 99352

Re: ALS Workorder: 1608077
Project Name: 100-KW Rebound Study, July 25, 2016
Project Number: X16-049

Dear Ms. Waters-Husted:

Two water samples were received from CH2M HILL Plateau Remediation Company, on 8/4/2016. The samples were scheduled for the following analysis:

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

8/20/2016

ALS1608077

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1608077

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: 100-KW Rebound Study, July 25, 2016

Client Project Number: X16-049

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B366Y8	1608077-1		WATER	02-Aug-16	
B366Y2	1608077-2		WATER	02-Aug-16	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# **X16-049-002**
Page 1 of 1

CH2M Hill Plateau Remediation Company

Collector: Kevin Patterson
GMPRC

Contact/Requester: Karen Waters-Husted
Telephone No. 509-376-4650

SAF No. X16-049
Purchase Order/Charge Code 304027

Project Title: 100-KW Rebound Study, July 25, 2016
Logbook No. HNF-N-506
Ice Chest No. **CWS-404**

Shipped To (Lab): ALS Environmental Ft. Collins
Method of Shipment: Commercial Carrier
Bill of Lading/Air Bill No. **776909912276**

Protocol: CERCLA
Priority: 30 Days
Offsite Property No. **6898**

POSSIBLE SAMPLE HAZARDS/REMARKS
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS: Hold Time
N/A

Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B366Y8	Y		AUG 02 2016	0850	1x500-mL GIP	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B366Y2	N		↓	↓	1x500-mL GIP	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Received By	Print	Sign	Date/Time	Matrix *
Kevin Patterson GMPRC			SSW#1			AUG 02 2016 1115	S = Soil, DS = Drum Solids, SE = Sediment, DL = Drum Liquids, SO = Solid, T = Tissue, SL = Sludge, WI = Wipe, W = Water, L = Liquid, O = Oil, V = Vegetation, A = Air, X = Other
Janelle Zunker GMPRC			Janelle Zunker GMPRC			AUG 03 2016 1040	
FEDEX			FEDEX			AUG 03 2016 0910	

Disposal Method (e.g., Return to customer, per lab procedure, used in process):
Disposed By: **ETRumble Cumber** 8-4-16 0910

DATE/TIME: AUG 02 2016 1115, AUG 03 2016 1040, AUG 03 2016 0910

PRINTED ON 7/13/2016

FRS ID = FRS32422

A-6004-842 (REV 2)



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1608077

Project Manager: JR

Initials: CDT Date: 8-4-16

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ___ < green pea ___ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ___ dusting ___ moderate ___ heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u> <u>2</u>			
Temperature (°C): <u>3.6</u> <u>4.2</u>			
No. of custody seals on cooler: <u>3</u> <u>2</u>			
DOT Survey/ Acceptance Information	External µR/hr reading: <u>11</u> <u>11</u>		
	Background µR/hr reading: <u>12</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (if no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: JR 8/4/16

1608027

ORIGIN ID: PSCA (508) 373-3580
JANELLE ZUNKER
CH2M
6269 LATAH ST.
RICHLAND, WA 99354
UNITED STATES US

SHIP DATE: 03AUG16
ACTWGT: 21.00 LB
CAD: 107066051/NET3790

BILL THIRD PARTY

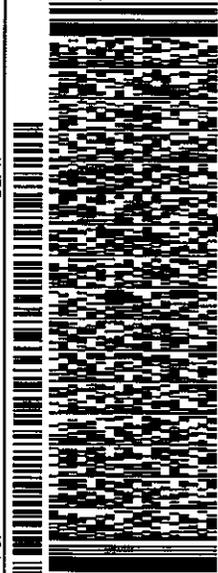
TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

11-2

6441M370M4E8

FORT COLLINS CO 80524
REF: 6889

DEPT: (970) 490-1511
INV: PC:



4.2

THU - 04 AUG 10:30A

PRIORITY OVERNIGHT

TRK# 7769 1233 4513

DSR

80524

XH FTCA CO-US DEN



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or Inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Metals

Case Narrative

CH2M HILL Plateau Remediation Company

100-KW Rebound Study, July 25, 2016 -- X16-049

Work Order Number: 1608077

1. This report consists of 2 water samples for total recoverable or dissolved metals.
2. The samples were received cool and intact by ALS on 08/04/16.
3. The sample for dissolved metals had been filtered prior to receipt. Both samples had a pH less than 2 upon receipt.
4. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by Trace ICP, the samples were digested following method 3005A and the current revision of SOP 806.

5. Analysis by Trace ICP followed method 6010B and the current revision of SOP 834.
6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold time.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
 - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch.
 - The preparation (method) blank associated with this digestion batch was below the reporting limit for the requested analytes. Potassium and sodium were detected above the MDL. Sample results have been compared to the blank results.
 - All laboratory control sample criteria were met.



- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples and high standard readbacks associated with Method 6010B were within acceptance criteria.

9. Matrix specific quality control procedures.

Sample 1608077-1 was designated as the quality control sample for this analysis.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with this batch. All acceptance criteria for accuracy were met.
- A serial dilution was analyzed with this ICP batch. All acceptance criteria were met.

10. Sample dilutions were not required for the requested analysis.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Jill Latelle
Inorganics Primary Data Reviewer

8/18/16
Date



April Ellinger
Inorganics Final Data Reviewer

8/20/16
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "B" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.
 - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 20X$ the blank concentration.
 - D - Analyte was reported at a secondary dilution factor, typically $DF > 1$ (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

Dissolved ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Field ID:	B366Y8
Lab ID:	1608077-1

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 02-Aug-16
 Date Extracted: 15-Aug-16
 Date Analyzed: 16-Aug-16
 Prep Method: SW3005 Rev A

Prep Batch: IP160815-2
 QCBatchID: IP160815-2-8
 Run ID: IT160816-1A4
 Cleanup: NONE
 Basis: As Received
 File Name: 160816A.

Analyst: Steve Workman
 Sample Aliquot: 50 g
 Final Volume: 50 g
 Result Units: UG/L
 Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	1	5.4	20	5.4	U	
7440-38-2	ARSENIC	1	3.9	10	3.9	U	
7440-39-3	BARIUM	1	28	20	0.99		
7440-43-9	CADMIUM	1	0.95	5	0.95	U	
7440-70-2	CALCIUM	1	69000	1000	23		
7440-47-3	CHROMIUM	1	17	10	1.1		
7440-48-4	COBALT	1	1	10	1	U	
7440-50-8	COPPER	1	1.9	8	1.9	U	
7439-89-6	IRON	1	16	50	16	U	
7439-95-4	MAGNESIUM	1	8200	750	21		
7439-96-5	MANGANESE	1	0.7	5	0.7	U	
7440-02-0	NICKEL	1	1.6	20	1.6	U	
7440-09-7	POTASSIUM	1	3600	1000	170	C	
7440-22-4	SILVER	1	1.6	10	1.6	U	
7440-23-5	SODIUM	1	20000	500	26		
7440-62-2	VANADIUM	1	1.4	10	0.93	B	
7440-66-6	ZINC	1	3	20	3	U	

Data Package ID: it1608077-1

Total Recoverable ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Field ID:	B366Y2
Lab ID:	1608077-2

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 02-Aug-16
 Date Extracted: 15-Aug-16
 Date Analyzed: 16-Aug-16
 Prep Method: SW3005 Rev A

Prep Batch: IP160815-2
 QCBatchID: IP160815-2-8
 Run ID: IT160816-1A4
 Cleanup: NONE
 Basis: As Received
 File Name: 160816A.

Analyst: Steve Workman
 Sample Aliquot: 50 g
 Final Volume: 50 g
 Result Units: UG/L
 Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	1	5.4	20	5.4	U	
7440-38-2	ARSENIC	1	3.9	10	3.9	U	
7440-39-3	BARIUM	1	29	20	0.99		
7440-43-9	CADMIUM	1	0.95	5	0.95	U	
7440-70-2	CALCIUM	1	71000	1000	23		
7440-47-3	CHROMIUM	1	18	10	1.1		
7440-48-4	COBALT	1	1	10	1	U	
7440-50-8	COPPER	1	1.9	8	1.9	U	
7439-89-6	IRON	1	16	50	16	U	
7439-95-4	MAGNESIUM	1	8400	750	21		
7439-96-5	MANGANESE	1	0.7	5	0.7	U	
7440-02-0	NICKEL	1	1.6	20	1.6	U	
7440-09-7	POTASSIUM	1	3700	1000	170	C	
7440-22-4	SILVER	1	1.6	10	1.6	U	
7440-23-5	SODIUM	1	21000	500	26		
7440-62-2	VANADIUM	1	2.4	10	0.93	B	
7440-66-6	ZINC	1	3	20	3	U	

Data Package ID: it1608077-1

8/20/2016
ALS1608077

ICP Metals

Method SW6010B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Lab ID: IP160815-2MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Aug-16

Date Analyzed: 16-Aug-16

Prep Batch: IP160815-2

QCBatchID: IP160815-2-8

Run ID: IT160816-1A4

Cleanup: NONE

Basis: N/A

File Name: 160816A.

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	1	5.4	20	5.4	U	
7440-38-2	ARSENIC	1	3.9	10	3.9	U	
7440-39-3	BARIUM	1	0.99	20	0.99	U	
7440-43-9	CADMIUM	1	0.95	5	0.95	U	
7440-70-2	CALCIUM	1	23	1000	23	U	
7440-47-3	CHROMIUM	1	1.1	10	1.1	U	
7440-48-4	COBALT	1	1	10	1	U	
7440-50-8	COPPER	1	1.9	8	1.9	U	
7439-89-6	IRON	1	16	50	16	U	
7439-95-4	MAGNESIUM	1	21	750	21	U	
7439-96-5	MANGANESE	1	0.7	5	0.7	U	
7440-02-0	NICKEL	1	1.6	20	1.6	U	
7440-09-7	POTASSIUM	1	190	1000	170	B	
7440-22-4	SILVER	1	1.6	10	1.6	U	
7440-23-5	SODIUM	1	77	500	26	B	
7440-62-2	VANADIUM	1	0.93	10	0.93	U	
7440-66-6	ZINC	1	3	20	3	U	

Data Package ID: it1608077-1

Date Printed: Thursday, August 18, 2016

ALS -- Fort Collins

Page 1 of 1

LIMS Version: 6.824

ICP Metals

Method SW6010B Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Lab ID: IP160815-2LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08/15/2016

Date Analyzed: 08/16/2016

Prep Method: SW3005A

Prep Batch: IP160815-2

QCBatchID: IP160815-2-8

Run ID: IT160816-1A4

Cleanup: NONE

Basis: N/A

File Name: 160816A.

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-36-0	ANTIMONY	500	508	20		102	80 - 120%
7440-38-2	ARSENIC	1000	1010	10		101	80 - 120%
7440-39-3	BARIUM	1000	1000	20		100	80 - 120%
7440-43-9	CADMIUM	50	49.2	5		98	80 - 120%
7440-70-2	CALCIUM	40000	40900	1000		102	80 - 120%
7440-47-3	CHROMIUM	200	201	10		101	80 - 120%
7440-48-4	COBALT	500	482	10		96	80 - 120%
7440-50-8	COPPER	250	262	8		105	80 - 120%
7439-89-6	IRON	1000	963	50		96	80 - 120%
7439-95-4	MAGNESIUM	40000	39300	750		98	80 - 120%
7439-96-5	MANGANESE	500	511	5		102	80 - 120%
7440-02-0	NICKEL	500	504	20		101	80 - 120%
7440-09-7	POTASSIUM	40000	40100	1000		100	80 - 120%
7440-22-4	SILVER	100	97.1	10		97	80 - 120%
7440-23-5	SODIUM	40000	39600	500		99	80 - 120%
7440-62-2	VANADIUM	500	501	10		100	80 - 120%
7440-66-6	ZINC	500	496	20		99	80 - 120%

Data Package ID: *it1608077-1*

ICP Metals

Method SW6010B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Field ID: B366Y8

LabID: 1608077-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 02-Aug-16

Date Extracted: 15-Aug-16

Date Analyzed: 16-Aug-16

Prep Method: SW3005 Rev A

Prep Batch: IP160815-2

QC BatchID: IP160815-2-8

Run ID: IT160816-1A4

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: UG/L

File Name: 160816A.

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-36-0	ANTIMONY	5.4	U	512		20	500	102	80 - 120%
7440-38-2	ARSENIC	3.9	U	1030		10	1000	103	80 - 120%
7440-39-3	BARIUM	28		1040		20	1000	102	80 - 120%
7440-43-9	CADMIUM	0.95	U	49.5		5	50	99	80 - 120%
7440-70-2	CALCIUM	69000		111000		1000	40000	105	80 - 120%
7440-47-3	CHROMIUM	17		218		10	200	100	80 - 120%
7440-48-4	COBALT	1	U	480		10	500	96	80 - 120%
7440-50-8	COPPER	1.9	U	266		8	250	107	80 - 120%
7439-89-6	IRON	16	U	966		50	1000	97	80 - 120%
7439-95-4	MAGNESIUM	8200		48200		750	40000	100	80 - 120%
7439-96-5	MANGANESE	0.7	U	513		5	500	103	80 - 120%
7440-02-0	NICKEL	1.6	U	491		20	500	98	80 - 120%
7440-09-7	POTASSIUM	3600	C	46900		1000	40000	108	80 - 120%
7440-22-4	SILVER	1.6	U	100		10	100	100	80 - 120%
7440-23-5	SODIUM	20000		62300		500	40000	105	80 - 120%
7440-62-2	VANADIUM	1.4	B	506		10	500	101	80 - 120%
7440-66-6	ZINC	3	U	497		20	500	99	80 - 120%

Data Package ID: *it1608077-1*

8/20/2016
ALS1608077

ICP Metals

Method SW6010B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1608077

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KW Rebound Study, July 25, 2016 X16-049

Field ID: B366Y8
LabID: 1608077-1MSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 02-Aug-16
Date Extracted: 15-Aug-16
Date Analyzed: 16-Aug-16
Prep Method: SW3005 Rev A

Prep Batch: IP160815-2
QCBatchID: IP160815-2-8
Run ID: IT160816-1A4
Cleanup: NONE
Basis: As Received

Sample Aliquot: 50 g
Final Volume: 50 g
Result Units: UG/L
File Name: 160816A.

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-36-0	ANTIMONY	506		500	101	20	20	1
7440-38-2	ARSENIC	1010		1000	101	10	20	1
7440-39-3	BARIUM	1040		1000	101	20	20	0
7440-43-9	CADMIUM	49.7		50	99	5	20	1
7440-70-2	CALCIUM	111000		40000	105	1000	20	0
7440-47-3	CHROMIUM	218		200	100	10	20	0
7440-48-4	COBALT	476		500	95	10	20	1
7440-50-8	COPPER	266		250	106	8	20	0
7439-89-6	IRON	960		1000	96	50	20	1
7439-95-4	MAGNESIUM	48100		40000	100	750	20	0
7439-96-5	MANGANESE	510		500	102	5	20	1
7440-02-0	NICKEL	487		500	97	20	20	1
7440-09-7	POTASSIUM	46600		40000	108	1000	20	0
7440-22-4	SILVER	99.3		100	99	10	20	1
7440-23-5	SODIUM	62200		40000	104	500	20	0
7440-62-2	VANADIUM	503		500	100	10	20	1
7440-66-6	ZINC	492		500	98	20	20	1

Data Package ID: *it1608077-1*