

Baseline Ecological Risk Assessment ProUCL Outputs Summary

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Appendix O

Exposure Point Concentrations for Selected Media for the Baseline Ecological Risk Assessment

This appendix presents a summary of the ProUCL Version 4.1 (USEPA 2010) output generated during calculation of exposure point concentrations for surface soil, sediment, surface water, vegetation, benthic macroinvertebrates, and fish (sculpin).

Reference

United States Environmental Protection Agency (USEPA). 2010. ProUCL Version 4.1.00 Technical Guide (Draft). EPA/600/R-07/041. May.

Table O-1 Summary of ProUCL 4.1 Output Regarding Surface Soil Exposure Point Concentraions (EPCs) for the RDM Site BERA.

Data Set	Analyte	Units	Number of Observations ^a	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Surface Soil	Antimony	mg/kg	127	105	3,044	4,713	23,300	Gamma	95% KM (Chebyshev) UCL	4,234	4,234	95% UCL
Surface Soil	Arsenic	mg/kg	127	116	2,300	2,372	9,880	Not Discernable	97.5% KM (Chebyshev) UCL	3,596	3,596	95% UCL
Surface Soil	Barium	mg/kg	127	127	335.5	265.7	1,710	Not Discernable	95% Chebyshev (Mean, Sd) UCL	438.3	438.3	95% UCL
Surface Soil	Beryllium	mg/kg	127	124	0.708	0.225	1.3	Not Discernable	95% KM (BCA) UCL	0.734	0.734	95% UCL
Surface Soil	Cadmium	mg/kg	127	38	0.541	0.275	1.3	Lognormal	95% KM (t) UCL	0.321	0.321	95% UCL
Surface Soil	Chromium	mg/kg	127	127	27.42	11.44	101	Not Discernable	95% Student's-t UCL	29.1	29.1	95% UCL
Surface Soil	Colalt	mg/kg	127	127	17.28	5.821	38.8	Not Discernable	95% Student's-t UCL	18.13	18.13	95% UCL
Surface Soil	Copper	mg/kg	127	127	58.84	26.35	139	Not Discernable	95% Chebyshev (Mean, Sd) UCL	69.03	69.03	95% UCL
Surface Soil	Lead	mg/kg	127	118	48.85	284.4	3090	Not Discernable	95% KM (BCA) UCL	96.56	96.56	95% UCL
Surface Soil	Lead - 1*	mg/kg	126	117	22.86	34.04	220	Not Discernable	95% KM (BCA) UCL	27.58	27.58	95% UCL
Surface Soil	Manganese	mg/kg	127	127	696.6	408.2	4230	Not Discernable	95% Student's-t UCL	756.6	756.6	95% UCL
Surface Soil	Manganese - 1*	mg/kg	126	126	668.5	259.3	1,500	Normal	95% Student's-t UCL	706.8	706.8	95% UCL
Surface Soil	Mercury	mg/kg	127	127	196.6	296.1	1,620	Gamma	95% Adjusted Gamma UCL	251.6	251.6	95% UCL
Surface Soil	Nickel	mg/kg	127	127	49.99	16.3	97	Not Discernable	95% Student's-t UCL	52.39	52.39	95% UCL
Surface Soil	Selenium	mg/kg	127	2	0.33	0.127	0.42	Not Discernable	95% KM (% Bootstrap) UCL	0.42	0.42	Max Detect
Surface Soil	Silver	mg/kg	127	2	0.0955	0.039	0.12	Not Discernable	--	--	0.12	Max Detect
Surface Soil	Thallium	mg/kg	127	2	0.068	0.00424	0.071	Not Discernable	95% KM (% Bootstrap) UCL	0.071	0.071	Max Detect
Surface Soil	Vanadium	mg/kg	127	127	33.9	6.189	51.9	Gamma	95% Approximate Gamma UCL	34.82	34.82	95% UCL
Surface Soil	Zinc	mg/kg	127	127	104.9	38.65	386	Not Discernable	95% Student's-t UCL	110.6	110.6	95% UCL
Surface Soil	Zinc - 1*	mg/kg	126	126	102.6	29.47	209	Normal	95% Student's-t UCL	107	107	95% UCL

Key:

-- = not applicable or not available

ADEC = Alaska Department of Environmental Conservation

BERA = baseline ecological risk assessment

EPC = exposure point concentration

GA = green alder

KM = Kaplan-Meier

KM (BCA) UCL = UCL based on Kaplan-Meier estimate using bias-corrected accelerated bootstrap method cutoff value

mg/kg = milligrams per kilogram

RDM = Red Devil Mine

Sd = standard deviation

SD = standard deviation

UCL = upper confidence limit (on average concentration)

Notes:

* Minus 1 high outlier value.

^a Duplicate observations resolved per ADEC guidance.

Table O-2 Summary of ProUCL 4.1 Output Regarding Sediment (Full Dataset^a) Exposure Point Concentraions (EPCs) for the RDM Site BERA.

Data Set	Analyte	Units	Number of Observations ^b	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Sediment	Antimony	mg/kg	67	62	504	1,188	6,360	Lognormal	97.5% KM (Chebyshev) UCL	1,344	1,344	95% UCL
Sediment	Arsenic	mg/kg	67	67	2,342	15,853	130,000	Not Discernable	95% Chebyshev (Mean, Sd) UCL	10,784	10,784	95% UCL
Sediment	Arsenic - 10RD05SD	mg/kg	66	66	407	822	3,610	Not Discernable	95% Chebyshev (Mean, Sd) UCL	848	848	95% UCL
Sediment	Barium	mg/kg	67	67	193.7	270.6	1,990	Not Discernable	95% Chebyshev (Mean, Sd) UCL	337.8	337.8	95% UCL
Sediment	Beryllium	mg/kg	67	66	0.422	0.203	0.9	Normal	95% KM (t) UCL	0.464	0.464	95% UCL
Sediment	Chromium	mg/kg	67	66	19.16	7.281	47.4	Not Discernable	95% KM (Chebyshev) UCL	23.03	23.03	95% UCL
Sediment	Cobalt	mg/kg	67	67	11.57	6.968	50	Not Discernable	95% Chebyshev (Mean, Sd) UCL	15.28	15.28	95% UCL
Sediment	Copper	mg/kg	67	67	29.15	18.06	87.5	Gamma	95% Approximate Gamma UCL	33.41	33.41	95% UCL
Sediment	Iron	mg/kg	67	67	33,678	40,082	344,000	Not Discernable	95% Chebyshev (Mean, Sd) UCL	55,022	55,022	95% UCL
Sediment	Iron - 10RD05SD	mg/kg	66	66	28,976	11,281	64,000	Normal	95% Student's-t UCL	31,293	31,293	95% UCL
Sediment	Manganese	mg/kg	67	67	960.4	783.7	5,410	Gamma	95% Approximate Gamma UCL	1,104	1,104	95% UCL
Sediment	Mercury	mg/kg	67	66	459	3,567	29,000	Lognormal	97.5% KM (Chebyshev) UCL	3,154	3,154	95% UCL
Sediment	Mercury - 0912KR60SD	mg/kg	66	65	19.92	40.18	260.0	Lognormal	97.5% KM (Chebyshev) UCL	50.33	50.33	95% UCL
Sediment	Methyl Mercury	mg/kg	36	35	1.421	2.617	14.4	Lognormal	97.5% KM (Chebyshev) UCL	4.08	4.08	95% UCL
Sediment	Nickel	mg/kg	67	67	35.48	29.56	240	Not Discernable	95% Chebyshev (Mean, Sd) UCL	51.23	51.23	95% UCL
Sediment	Selenium	mg/kg	67	52	0.592	0.453	2.5	Lognormal	95% KM (BCA) UCL	0.701	0.701	95% UCL
Sediment	Thallium	mg/kg	67	28	0.139	0.129	0.653	Not Discernable	95% KM (t) UCL	0.137	0.137	95% UCL
Sediment	Vanadium	mg/kg	67	66	25.38	8.002	48.5	Normal	95% KM (t) UCL	26.87	26.87	95% UCL
Sediment	Zinc	mg/kg	67	67	76.65	36.62	270	Normal	95% Student's-t UCL	84.12	84.12	95% UCL

Key:

ADEC = Alaska Department of Environmental Conservation

BERA = baseline ecological risk assessment

EPC = exposure point concentration

KM = Kaplan-Meier

KM (BCA) UCL = UCL based on Kaplan-Meier estimate using bias-corrected accelerated bootstrap method cutoff value

mg/kg = milligrams per kilogram

RDM = Red Devil Mine

Sd = standard deviation

SD = standard deviation

UCL = upper confidence limit (on average concentration)

YBS = yellow boy sample (refers to sediment sample 10RD05SD, which was a sample of iron oxyhydroxide precipitate from the spring in the Main Processing Area)

Note:

^a See Human Health Risk Assessment (HHRA) tables for sediment EPCs based only on Red Devil Creek and shoreline Kuskokwim River sediment samples.

^b Duplicate observations resolved per ADEC guidance.

Table O-3 Summary of ProUCL 4.1 Output Regarding Unfiltered Surface Water Exposure Point Concentraions (EPCs) for the RDM Site BERA.

Data Set	Analyte	Units	Number of Observations ^a	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Surface Water	Antimony	ug/L	19	19	72.72	72.6	184	Gamma	95% Approximate Gamma UCL	135.5	135.5	95% UCL
Surface Water	Arsenic	ug/L	19	19	138.1	294.9	1030	Not Discernable	99% Chebyshev (Mean, Sd) UCL	811.3	811.3	95% UCL
Surface Water	Arsenic - 2*	ug/L	178	17	40.61	38.38	85.6	Not Discernable	99% Chebyshev (Mean, Sd) UCL	133.2	85.6	Max Detect
Surface Water	Barium	ug/L	19	19	34.02	24.36	103	Not Discernable	95% Student's-t UCL	43.71	43.71	95% UCL
Surface Water	Barium - 2*	ug/L	17	17	25.96	3.519	32.1	Normal	95% Student's-t UCL	27.45	27.45	95% UCL
Surface Water	Beryllium	ug/L	19	1	0.009	--	0.009	Insufficient Data	Insufficient Data	--	0.009	Max Detect
Surface Water	Cadmium	ug/L	19	3	0.00633	0.00153	0.008	Normal	95% KM (t) UCL	0.00593	0.00593	95% UCL
Surface Water	Chromium	ug/L	19	11	0.325	0.135	0.57	Normal	95% KM (t) UCL	0.306	0.306	95% UCL
Surface Water	Cobalt	ug/L	19	16	0.844	1.735	5.3	Not Discernable	97.5% KM (Chebyshev) UCL	3.039	3.039	95% UCL
Surface Water	Cobalt - 2*	ug/L	17	14	0.211	0.166	0.677	Gamma	95% KM (BCA) UCL	0.248	0.248	95% UCL
Surface Water	Copper	ug/L	19	12	0.438	0.116	0.71	Normal	95% KM (t) UCL	0.431	0.431	95% UCL
Surface Water	Iron	ug/L	19	19	507.6	817.4	2470	Not Discernable	95% Chebyshev (Mean, Sd) UCL	1325	1325	95% UCL
Surface Water	Iron - 2*	ug/L	17	17	299.6	560	2470	Not Discernable	95% Chebyshev (Mean, Sd) UCL	891.7	891.7	95% UCL
Surface Water	Lead	ug/L	19	11	0.0242	0.0195	0.079	Gamma	95% KM (t) UCL	0.0344	0.0344	95% UCL
Surface Water	Manganese	ug/L	19	19	61.93	108.6	379	Not Discernable	95% Chebyshev (Mean, Sd) UCL	170.6	170.6	95% UCL
Surface Water	Manganese - 2*	ug/L	17	17	26.1	17.3	86.4	Gamma	95% Approximate Gamma UCL	33.2	33.2	95% UCL
Surface Water	Mercury	ng/L	18	18	128.6	132	385	Gamma	95% Approximate Gamma UCL	242.5	242.5	95% UCL
Surface Water	Methylmercury	ng/L	18	18	0.162	0.147	0.62	Not Discernable	95% Chebyshev (Mean, Sd) UCL	0.313	0.313	95% UCL
Surface Water	Methylmercury - 2*	ng/L	16	16	0.113	0.0246	0.144	Gamma	95% Approximate Gamma UCL	0.125	0.125	95% UCL
Surface Water	Nickel	ug/L	19	16	3.05	5.917	19.2	Not Discernable	97.5% KM (Chebyshev) UCL	10.54	10.54	95% UCL
Surface Water	Nickel - 2*	ug/L	17	14	0.893	0.374	1.38	Not Discernable	95% KM (Chebyshev) UCL	1.222	1.222	95% UCL
Surface Water	Selenium	ug/L	19	8	0.425	0.0707	0.5	Normal	95% KM (t) UCL	0.385	0.385	95% UCL
Surface Water	Thallium	ug/L	19	2	0.0085	0.00212	0.01	Not Discernable	95% KM (t) UCL	0.00753	0.00753	95% UCL
Surface Water	Vanadium	ug/L	19	11	0.142	0.0334	0.22	Normal	95% KM (t) UCL	0.137	0.137	95% UCL
Surface Water	Zinc	ug/L	19	8	0.763	0.715	2.1	Not Discernable	95% KM (t) UCL	0.727	0.727	95% UCL

Key:

-- = not applicable or not available

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BERA = baseline ecological risk assessment

EPC = exposure point concentration

KM = Kaplan-Meier

KM (BCA) UCL = UCL based on Kaplan-Meier estimate using bias-corrected accelerated bootstrap method cutoff value

ng/L = nanograms per liter

RDM = Red Devil Mine

Sd = standard deviation

SD = standard deviation

UCL = upper confidence limit (on average concentration)

ug/L = micrograms per liter

Notes:

* Minus two samples from the spring in the Main Processing Area (10RD05SW and 11RD05SW).

^a Duplicate observations resolved per ADEC guidance.

Table O-4 Summary of ProUCL 4.1 Output Regarding Green Alder (GA) Bark and Spruce Needle Exposure Point Concentraions (EPCs) for the RDM Site BERA.

Data Set	Analyte	Units	Number of Observations	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	UCL	EPC	EPC Source
GA Bark	Antimony	mg/kg	8	8	1.236	1.219	3.35	Gamma	95% Approximate Gamma UCL	2.724	2.724	95% UCL
GA Bark	Arsenic	mg/kg	8	8	0.355	0.264	0.91	Normal	95% Student's-t UCL	0.532	0.532	95% UCL
Spruce	Antimony	mg/kg	8	8	2.377	5.151	15.1	Lognormal	95% Chebyshev (Mean, Sd) UCL	10.32	10.32	95% UCL
Spruce	Arsenic	mg/kg	8	8	1.728	3.796	11.1	Lognormal	95% Chebyshev (Mean, Sd) UCL	7.577	7.577	95% UCL
Spruce	Barium	mg/kg	8	8	41.05	28.12	85.3	Normal	95% Student's-t UCL	59.88	59.88	95% UCL
Spruce	Beryllium	mg/kg	8	2	0.008	0	0.008	Unknown	Insufficient Data	--	0.008	Max Detect
Spruce	Lead	mg/kg	8	8	0.102	0.151	0.466	Lognormal	95% Chebyshev (Mean, Sd) UCL	0.335	0.335	95% UCL
Spruce	Managanese	mg/kg	8	8	923	927.5	2990	Gamma	95% Approximate Gamma UCL	1904	1904	95% UCL
Spruce	Mercury	mg/kg	8	8	0.959	1.923	5.64	Gamma	95% Adjusted Gamma UCL	5.694	5.64	Max Detect
Spruce	Thallium	mg/kg	8	2	0.013	0.0113	0.021	Not Discernable	95% KM (BCA) UCL	0.021	0.021	Max Detect
Spruce	Vanadium	mg/kg	8	8	0.113	0.157	0.47	Not Discernable	95% Hall's Bootstrap UCL	0.917	0.47	Max Detect

Key:

BERA = baseline ecological risk assessment

EPC = exposure point concentration

GA = green alder

KM (BCA) UCL = UCL based on Kaplan-Meier estimate using bias-corrected accelerated bootstrap method cutoff value

mg/kg = milligrams per kilogram

RDM = Red Devil Mine

Sd = standard deviation

SD = standard deviation

UCL = upper confidence limit (on average concentration)

Table O-5 Summary of ProUCL 4.1 Output, Whole-Body Slimy Sculpin Exposure Point Concentraions (EPCs), RDM Site BERA.

Data Set	Analyte	Units	Observations	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Sculpin	Antimony	mg/kg W	21	21	10.6	10.18	38.1	Gamma	95% Approximate Gamma UCL	17.06	17.06	95% UCL
Sculpin	Arsenic	mg/kg W	45	45	10.35	9.642	45.9	Gamma	95% Approximate Gamma UCL	12.98	12.98	95% UCL
Sculpin	Barium	mg/kg W	45	45	3.295	1.243	6.96	Normal	95% Student's-t UCL	3.606	3.606	95% UCL
Sculpin	Beryllium	mg/kg W	45	0	--	--	--	--	--	--	--	--
Sculpin	Chromium	mg/kg W	45	21	0.191	0.515	2.431	Not Discernable	95% KM (t) UCL	0.199	0.199	95% UCL
Sculpin	Manganese	mg/kg W	45	45	13.71	6.84	40.7	Lognormal	95% Student's-t UCL	15.42	15.42	95% UCL
Sculpin	Mercury	mg/kg W	45	45	0.731	1.007	3.701	Not Discernable	95% Chebyshev (Mean, Sd) UCL	1.386	1.386	95% UCL
Sculpin	Methylmercury	mg/kg W	7	7	0.145	0.0841	0.312	Normal	95% Student's-t UCL	0.207	0.207	95% UCL
Sculpin	Selenium	mg/kg W	45	45	1.281	0.584	2.975	Gamma	95% Approximate Gamma UCL	1.432	1.432	95% UCL
Sculpin	Vanadium	mg/kg W	45	24	0.215	0.0878	0.433	Normal	95% KM (t) UCL	0.181	0.181	95% UCL
Sculpin	Zinc	mg/kg W	45	45	24.51	4.36	35.37	Normal	95% Student's-t UCL	25.61	25.61	95% UCL

Key:

BERA = baseline ecological risk assessment

EPC = exposure point concentration

mg/kg W= milligrams per kilogram (wet weight)

RDM = Red Devil Mine

SD = standard deviation

UCL = upper confidence limit (on average concentration)

Table O-6 Summary of ProUCL 4.1 Output, Benthic Macroinvertebrate Composite Sample Exposure Point Concentraions (EPCs), RDM Site BERA.

Data Set	Analyte	Units	Number of Observations	Number of Detections	Mean of Detected	SD of Detected	Maximum Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Benthos	Antimony	mg/kg W	3	3	20.259667	1.2470402	21.437	--	--	--	21.437	Max Det.
Benthos	Arsenic	mg/kg W	7	7	141.7	87.01	277	Normal	95% Student's-t UCL	205.6	205.6	95% UCL
Benthos	Barium	mg/kg W	7	7	7.223	3.903	14.6	Normal	95% Student's-t UCL	10.09	10.09	95% UCL
Benthos	Beryllium	mg/kg W	7	0	--	--	--	--	--	--	--	--
Benthos	Chromium	mg/kg W	7	6	0.471	0.123	0.67	Normal	95% KM (t) UCL	0.543	0.543	95% UCL
Benthos	Copper	mg/kg W	7	7	8.64	2.09	12.41	Normal	95% Student's-t UCL	10.18	10.18	95% UCL
Benthos	Iron	mg/kg W	7	7	1,179	743.3	2,570	Normal	95% Student's-t UCL	1,725	1,725	95% UCL
Benthos	Manganese	mg/kg W	7	7	54.57	50.41	164	Gamma	95% Approximate Gamma UCL	111.1	111.1	95% UCL
Benthos	Mercury	mg/kg W	7	7	1.338	0.989	2.41	Normal	95% Student's-t UCL	2.064	2.064	95% UCL
Benthos	Methylmercury	mg/kg W	10	10	0.0566	0.0328	0.131	Normal	95% Student's-t UCL	0.0756	0.0756	95% UCL
Benthos	Nickel	mg/kg W	7	7	1.281	0.816	2.96	Normal	95% Student's-t UCL	1.88	1.88	95% UCL
Benthos	Selenium	mg/kg W	7	6	2.377	1.187	4.046	Normal	95% KM (t) UCL	3.076	3.076	95% UCL
Benthos	Vanadium	mg/kg W	7	6	0.597	0.256	1.09	Normal	95% KM (t) UCL	0.752	0.752	95% UCL
Benthos	Zinc	mg/kg W	7	7	37.86	9.664	48.6	Normal	95% Student's-t UCL	44.96	44.96	95% UCL

Key:
 BERA = baseline ecological risk assessment
 EPC = exposure point concentration
 KM = Kaplan-Meier
 Max det. = maximum detected concentration
 mg/kg W= milligrams per kilogram (wet weight)
 RDM = Red Devil Mine
 SD = standard deviation
 UCL = upper confidence limit (on average concentration)

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Antimony (mg/kg)					Arsenic (mg/kg)					Barium (mg/kg)					Beryllium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10DS01SS	No		40	J	10DS01SS	No		1010		10DS01SS	No		171		10DS01SS	No		0.8	
10DS02SS	No		40	J	10DS02SS	No		550		10DS02SS	No		174		10DS02SS	No		0.6	
10DS03SS	No		21	J	10DS03SS	No		355		10DS03SS	No		166		10DS03SS	No		0.6	
10MP01SS	No		20	J	10MP01SS	No		100		10MP01SS	No		84		10MP01SS	No		0.4	
10MP02SS	No	10MP81SS	210	J	10MP02SS	No	10MP81SS	7310		10MP02SS	No	10MP81SS	134		10MP02SS	No	10MP81SS	1.3	
10MP030405SS	No		5500	J	10MP030405SS	No		5580		10MP030405SS	No		639		10MP030405SS	No		0.9	
10MP03SS	No		4720	J	10MP03SS	No		5200		10MP03SS	No		769		10MP03SS	No		0.9	
10MP04SS	No		5530	J	10MP04SS	No		6670		10MP04SS	No		750		10MP04SS	No		0.9	
10MP05SS	No		4460	J	10MP05SS	No		5660		10MP05SS	No		697		10MP05SS	No		0.9	
10MP06070809SS	No		4420	J	10MP06070809SS	No		4520		10MP06070809SS	No		496		10MP06070809SS	No		0.9	
10MP06SS	No		5750	J	10MP06SS	No		5640		10MP06SS	No		580		10MP06SS	No		0.9	
10MP07SS	No		8200	J	10MP07SS	No		4280		10MP07SS	No		572		10MP07SS	No		0.9	
10MP08SS	No		1220	J	10MP08SS	No		3040		10MP08SS	No		286		10MP08SS	No		0.8	
10MP09SS	No		1990	J	10MP09SS	No		4200		10MP09SS	No		424		10MP09SS	No		0.8	
10MP10SS	No		470	J	10MP10SS	No		1540		10MP10SS	No		225		10MP10SS	No		0.8	
10MP11SS	No		6980	J	10MP11SS	No		5320		10MP11SS	No		796		10MP11SS	No		1	
10MP12SS	No		10900	J	10MP12SS	No		4870		10MP12SS	No		746		10MP12SS	No		1	
10MP13SS	No		12100	J	10MP13SS	No		4890		10MP13SS	No		840		10MP13SS	No		0.9	
10MP14SS	No		3400	J	10MP14SS	No		2320		10MP14SS	No		462		10MP14SS	No		0.8	
10MP15SS	No		11800	J	10MP15SS	No		4660		10MP15SS	No		1160		10MP15SS	No		1.1	
10MP16SS	No	10MP89SS	1570	J	10MP16SS	No	10MP89SS	6950		10MP16SS	No	10MP89SS	358		10MP16SS	No	10MP89SS	0.7	
10MP17SS	No	10MP82SS	6180	J	10MP17SS	No	10MP82SS	5540		10MP17SS	No	10MP82SS	1020		10MP17SS	No	10MP82SS	1	
10MP18SS	No		4810	J	10MP18SS	No		2570		10MP18SS	No		462		10MP18SS	No		0.8	
10MP19SS	No		40		10MP19SS	No		170		10MP19SS	No		90.3		10MP19SS	No		0.6	
10MP20SS	No		40		10MP20SS	No		230		10MP20SS	No		213		10MP20SS	No		0.7	
10MP21SS	No		80		10MP21SS	No		360		10MP21SS	No		319		10MP21SS	No		0.8	
10MP22SS	No		2500		10MP22SS	No		1960		10MP22SS	No		346		10MP22SS	No		0.8	
10MP23SS	No		8720		10MP23SS	No		4380		10MP23SS	No		598		10MP23SS	No		0.9	
10MP24SS	No		1180		10MP24SS	No		2020		10MP24SS	No		277		10MP24SS	No		0.7	
10MP25SS	No		14100		10MP25SS	No		5400		10MP25SS	No		882		10MP25SS	No		1	
10MP26SS	No		15100		10MP26SS	No		6420		10MP26SS	No		890		10MP26SS	No		1	
10MP27SS	No		8480		10MP27SS	No		6100		10MP27SS	No		735		10MP27SS	No		1	
10MP28SS	No		4780		10MP28SS	No		5350		10MP28SS	No		682		10MP28SS	No		0.9	
10MP29SS	No		16700		10MP29SS	No		6170		10MP29SS	No		870		10MP29SS	No		0.21 U	
10MP30SS	No		720		10MP30SS	No		2930		10MP30SS	No		263		10MP30SS	No		0.7	
10MP31SS	No		7		10MP31SS	No		19		10MP31SS	No		76.2		10MP31SS	No		0.4	
10MP32SS	No		1430		10MP32SS	No		9880		10MP32SS	No		126		10MP32SS	No		0.7	
10MP33SS	No		9		10MP33SS	No		18		10MP33SS	No		112		10MP33SS	No		0.3	
10MP34SS	No		780		10MP34SS	No		8510		10MP34SS	No		101		10MP34SS	No		0.7	
10MP35SS	No		1680		10MP35SS	No		2390		10MP35SS	No		474		10MP35SS	No		0.6	
10MP36SS	No	10MP84SS	690		10MP36SS	No	10MP84SS	7050		10MP36SS	No	10MP84SS	145		10MP36SS	No	10MP84SS	0.8	
10MP37SS	No		20		10MP37SS	No		60		10MP37SS	No		144		10MP37SS	No		0.5	
10MP38SS	No		760		10MP38SS	No		992		10MP38SS	No		207		10MP38SS	No		0.6	
10MP39SS	No		1910		10MP39SS	No		1770		10MP39SS	No		401		10MP39SS	No		0.6	
10MP40SS	No		267		10MP40SS	No		375		10MP40SS	No		162		10MP40SS	No		0.5	
10MP41SS	No		39		10MP41SS	No		516		10MP41SS	No		102		10MP41SS	No		0.4	
10MP424344SS	No		880		10MP424344SS	No		1840		10MP424344SS	No		211		10MP424344SS	No		0.8	
10MP42SS	No		560		10MP42SS	No		1770		10MP42SS	No		218		10MP42SS	No		0.8	
10MP43SS	No		720		10MP43SS	No		2080		10MP43SS	No		224		10MP43SS	No		0.8	
10MP44SS	No		340		10MP44SS	No		860		10MP44SS	No		196		10MP44SS	No		0.7	
10MP45SS	No		220		10MP45SS	No		1800		10MP45SS	No		205		10MP45SS	No		0.9	
10MP46SS	No		13000		10MP46SS	No		4940		10MP46SS	No		892		10MP46SS	No		1.1	
10MP47SS	No		90		10MP47SS	No		1180		10MP47SS	No		191		10MP47SS	No		0.8	
10MP48SS	No		5980	J	10MP48SS	No		3940		10MP48SS	No		498		10MP48SS	No		0.8	

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Antimony (mg/kg)			Arsenic (mg/kg)			Barium (mg/kg)			Beryllium (mg/kg)					
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10MP49SS	No		10900	J	10MP49SS	No		4130		10MP49SS	No		562	
10MP5051525354SS	No		10100	J	10MP5051525354SS	No		3610		10MP5051525354SS	No		431	
10MP50SS	No		210	J	10MP50SS	No		826		10MP50SS	No		135	
10MP51SS	No		23300	J	10MP51SS	No		4610		10MP51SS	No		732	
10MP52SS	No		18500	J	10MP52SS	No		5000		10MP52SS	No		663	
10MP53SS	No		1480	J	10MP53SS	No		3000		10MP53SS	No		291	
10MP54SS	No		20	J	10MP54SS	No		1360		10MP54SS	No		186	
10MP55565758SS	No		764	J	10MP55565758SS	No		1100		10MP55565758SS	No		221	
10MP55SS	No		1890	J	10MP55SS	No		2150		10MP55SS	No		340	
10MP56SS	No		183	J	10MP56SS	No		333		10MP56SS	No		119	
10MP57SS	No		1630	J	10MP57SS	No		2000		10MP57SS	No		269	
10MP58SS	No		716	J	10MP58SS	No		1080		10MP58SS	No		256	
10MP59SS	No	10MP86SS	170	J	10MP59SS	No	10MP86SS	1130		10MP59SS	No	10MP86SS	191	
10MP60SS	No		660	J	10MP60SS	No		1800		10MP60SS	No		217	
10MP61SS	No		1200	J	10MP61SS	No		1410		10MP61SS	No		211	
10MP62SS	No		1590	J	10MP62SS	No		1880		10MP62SS	No		297	
10MP63SS	No		2680	J	10MP63SS	No		2880		10MP63SS	No		319	
10MP64SS	No		1810	J	10MP64SS	No		2520		10MP64SS	No		371	
10MP65SS	No		589	J	10MP65SS	No		1200		10MP65SS	No		255	
10MP66SS	No		220	J	10MP66SS	No		2490		10MP66SS	No		212	
10MP67SS	No		9830	J	10MP67SS	No		5240		10MP67SS	No		622	
10MP68SS	No		351	J	10MP68SS	No		959		10MP68SS	No		149	
10MP80SS	No		5600	J	10MP80SS	No		5800		10MP80SS	No		567	
10MP81SS	No	10MP02SS	250	J	10MP81SS	No	10MP02SS	5020		10MP81SS	No	10MP02SS	97.1	
10MP82SS	No	10MP17SS	7300	J	10MP82SS	No	10MP17SS	5090		10MP82SS	No	10MP17SS	807	
10MP83SS	No		1670	J	10MP83SS	No		1940		10MP83SS	No		251	
10MP84SS	No	10MP36SS	660	J	10MP84SS	No	10MP36SS	6390		10MP84SS	No	10MP36SS	140	
10MP85SS	No		850	J	10MP85SS	No		2160		10MP85SS	No		208	
10MP86SS	No	10MP59SS	170	J	10MP86SS	No	10MP59SS	950		10MP86SS	No	10MP59SS	219	
10MP87SS	No		90	J	10MP87SS	No		320		10MP87SS	No		297	
10MP88SS	No		11500	J	10MP88SS	No		5780		10MP88SS	No		880	
10MP89SS	No	10MP16SS	1200	J	10MP89SS	No	10MP16SS	5340		10MP89SS	No	10MP16SS	339	
10OP01SS	No		3520	J	10OP01SS	No		5340		10OP01SS	No		1710	
10RD01SS	No		0.61	U	10RD01SS	No		39		10RD01SS	No		204	
10RD02SS	No		530	J	10RD02SS	No		1280		10RD02SS	No		287	
10RD03SS	No		479	J	10RD03SS	No		950		10RD03SS	No		265	
10RD04SS	No		381	J	10RD04SS	No		1210		10RD04SS	No		248	
10RD05SS	No		39	J	10RD05SS	No		67		10RD05SS	No		165	
10RD06SS	No		677	J	10RD06SS	No		1250		10RD06SS	No		215	
10RD07SS	No		30	J	10RD07SS	No		76		10RD07SS	No		120	
10RD08SS	No	10RD30SS	1.2	U	10RD08SS	No	10RD30SS	30		10RD08SS	No	10RD30SS	157	
10RD09SS	No		1.4	UJ	10RD09SS	No		20		10RD09SS	No		162	
10RD20SS	No		974	J	10RD20SS	No		1310		10RD20SS	No		218	
10RD30SS	No	10RD08SS	1.2	UJ	10RD30SS	No	10RD08SS	30		10RD30SS	No	10RD08SS	136	
10RS01SS	No		34	J	10RS01SS	No		29		10RS01SS	No		202	J
10RS02SS	No		9	J	10RS02SS	No		30		10RS02SS	No		188	J
10RS03SS	No		0.53	UJ	10RS03SS	No		110		10RS03SS	No		154	J
10SM01SS	No		40	J	10SM01SS	No		1710		10SM01SS	No		173	J
10SM02SS	No		80	J	10SM02SS	No		3620		10SM02SS	No		212	J
10SM03SS	No	10SM41SS	90	J	10SM03SS	No	10SM41SS	2290		10SM03SS	No	10SM41SS	193	J
10SM04SS	No		20	J	10SM04SS	No		1470		10SM04SS	No		339	J
10SM05SS	No		140	J	10SM05SS	No		5120		10SM05SS	No		306	J
10SM06SS	No		30	J	10SM06SS	No		890		10SM06SS	No		317	J
10SM07SS	No		2.3	UJ	10SM07SS	No		8510		10SM07SS	No		332	J

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Antimony (mg/kg)					Arsenic (mg/kg)					Barium (mg/kg)					Beryllium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM08SS	No		10	J	10SM08SS	No		230		10SM08SS	No		241	J	10SM08SS	No		1.1	
10SM09SS	No		1.1	UJ	10SM09SS	No		190		10SM09SS	No		287	J	10SM09SS	No		0.8	
10SM10SS	No		0.45	UJ	10SM10SS	No		12		10SM10SS	No		174		10SM10SS	No		0.4	
10SM11SS	No		0.49	UJ	10SM11SS	No		11		10SM11SS	No		97		10SM11SS	No		0.4	
10SM12SS	No	10SM40SS	1.2	UJ	10SM12SS	No	10SM40SS	90		10SM12SS	No	10SM40SS	176		10SM12SS	No	10SM40SS	0.6	
10SM13SS	No		40	J	10SM13SS	No		670		10SM13SS	No		215		10SM13SS	No		0.8	
10SM14SS	No		0.48	UJ	10SM14SS	No		10		10SM14SS	No		165		10SM14SS	No		0.4	
10SM15SS	No		0.48	UJ	10SM15SS	No		21		10SM15SS	No		165		10SM15SS	No		0.5	
10SM16SS	No		1.2	UJ	10SM16SS	No		350		10SM16SS	No		248		10SM16SS	No		0.8	
10SM17SS	No		20	J	10SM17SS	No		361		10SM17SS	No		177		10SM17SS	No		0.6	
10SM18SS	No		1.2	UJ	10SM18SS	No		230		10SM18SS	No		253		10SM18SS	No		1.3	
10SM19SS	No		20	J	10SM19SS	No		670		10SM19SS	No		148		10SM19SS	No		0.9	
10SM20SS	No		0.48	UJ	10SM20SS	No		9		10SM20SS	No		121		10SM20SS	No		0.4	
10SM21SS	No		0.47	UJ	10SM21SS	No		39		10SM21SS	No		220		10SM21SS	No		0.5	
10SM22SS	No		0.49	UJ	10SM22SS	No		17		10SM22SS	No		147		10SM22SS	No		0.5	
10SM23SS	No		508	J	10SM23SS	No		223		10SM23SS	No		163		10SM23SS	No		0.4	
10SM24SS	No		1.2	UJ	10SM24SS	No		0.9	U	10SM24SS	No		149		10SM24SS	No		0.5	
10SM25SS	No		1.1	UJ	10SM25SS	No		40		10SM25SS	No		103		10SM25SS	No		0.5	
10SM26SS	No		0.49	UJ	10SM26SS	No		13		10SM26SS	No		132		10SM26SS	No		0.4	
10SM27SS	No		1.2	UJ	10SM27SS	No		20		10SM27SS	No		180		10SM27SS	No		0.5	
10SM28SS	No		109	J	10SM28SS	No		177		10SM28SS	No		145		10SM28SS	No		0.4	
10SM29SS	No		0.5	UJ	10SM29SS	No		11		10SM29SS	No		136		10SM29SS	No		0.4	
10SM30SS	No		0.54	UJ	10SM30SS	No		46		10SM30SS	No		213		10SM30SS	No		0.6	
10SM40SS	No	10SM12SS	0.47	UJ	10SM40SS	No	10SM12SS	71		10SM40SS	No	10SM12SS	171		10SM40SS	No	10SM12SS	0.5	
10SM41SS	No	10SM03SS	30	J	10SM41SS	No	10SM03SS	1730		10SM41SS	No	10SM03SS	168		10SM41SS	No	10SM03SS	0.8	
11MP70SS	No		4.6		11MP70SS	No		33.9	J	11MP70SS	No		144		11MP70SS	No		0.36	
11MP71SS	No		0.708	J	11MP71SS	No		10.8	J	11MP71SS	No		99.1	J	11MP71SS	No		0.381	

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 23300 J
 Min. detected concentration 0.45 J
 Number of detects 111
 Freq. of Detection 111/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 9880
 Min. detected concentration 0.9
 Number of detects 134
 Freq. of Detection 134/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 1710
 Min. detected concentration 76.2
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 1.3
 Min. detected concentration 0.21
 Number of detects 132
 Freq. of Detection 132/135

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Cadmium (mg/kg)			Chromium (mg/kg)			Copper (mg/kg)			Lead (mg/kg)					
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10DS01SS	No		0.055	U	10DS01SS	No		20		10DS01SS	No		57.4	
10DS02SS	No		0.058	U	10DS02SS	No		21		10DS02SS	No		37.5	
10DS03SS	No		0.5		10DS03SS	No		18.9		10DS03SS	No		49.3	
10MP01SS	No		0.063	U	10MP01SS	No		24		10MP01SS	No		32.3	
10MP02SS	No	10MP81SS	0.1	U	10MP02SS	No	10MP81SS	8		10MP02SS	No	10MP81SS	118	
10MP030405SS	No		0.057	U	10MP030405SS	No		39		10MP030405SS	No		81.6	
10MP03SS	No		0.055	U	10MP03SS	No		46		10MP03SS	No		75	
10MP04SS	No		0.055	U	10MP04SS	No		71		10MP04SS	No		73.8	
10MP05SS	No		0.052	U	10MP05SS	No		45		10MP05SS	No		72.9	
10MP06070809SS	No		0.057	U	10MP06070809SS	No		34		10MP06070809SS	No		81.3	
10MP06SS	No		0.055	U	10MP06SS	No		29		10MP06SS	No		77.2	
10MP07SS	No		0.11	U	10MP07SS	No		32		10MP07SS	No		77	
10MP08SS	No		0.055	U	10MP08SS	No		24		10MP08SS	No		79.5	
10MP09SS	No		0.056	U	10MP09SS	No		33		10MP09SS	No		70	
10MP10SS	No		0.054	U	10MP10SS	No		23		10MP10SS	No		83.5	
10MP11SS	No		0.052	U	10MP11SS	No		43		10MP11SS	No		86.7	
10MP12SS	No		0.11	U	10MP12SS	No		35		10MP12SS	No		90	1 U
10MP13SS	No		0.11	U	10MP13SS	No		41		10MP13SS	No		77	1 U
10MP14SS	No		0.055	U	10MP14SS	No		24		10MP14SS	No		72.3	
10MP15SS	No		0.12	U	10MP15SS	No		30		10MP15SS	No		87	
10MP16SS	No	10MP89SS	0.052	U	10MP16SS	No	10MP89SS	40		10MP16SS	No	10MP89SS	54.1	
10MP17SS	No	10MP82SS	0.052	U	10MP17SS	No	10MP82SS	51		10MP17SS	No	10MP82SS	81.9	
10MP18SS	No		0.054	U	10MP18SS	No		27		10MP18SS	No		72.9	
10MP19SS	No		0.06	U	10MP19SS	No		23		10MP19SS	No		32.4	
10MP20SS	No		1.1		10MP20SS	No		25		10MP20SS	No		89.7	
10MP21SS	No		0.8		10MP21SS	No		32		10MP21SS	No		96.9	
10MP22SS	No		0.054	U	10MP22SS	No		25		10MP22SS	No		87.9	
10MP23SS	No		0.1	U	10MP23SS	No		30		10MP23SS	No		117	
10MP24SS	No		1		10MP24SS	No		26		10MP24SS	No		82.3	
10MP25SS	No		0.11	U	10MP25SS	No		41		10MP25SS	No		95	
10MP26SS	No		0.11	U	10MP26SS	No		49		10MP26SS	No		97	1 U
10MP27SS	No		0.11	U	10MP27SS	No		37		10MP27SS	No		139	220
10MP28SS	No		0.052	U	10MP28SS	No		33		10MP28SS	No		77	43
10MP29SS	No		0.21	U	10MP29SS	No		41		10MP29SS	No		94	1.9 U
10MP30SS	No		0.057	U	10MP30SS	No		22		10MP30SS	No		63.7	57
10MP31SS	No		0.3		10MP31SS	No		21.5		10MP31SS	No		17.9	7
10MP32SS	No		0.12	U	10MP32SS	No		19		10MP32SS	No		71	180
10MP33SS	No		0.032	U	10MP33SS	No		18.7		10MP33SS	No		20.2	8
10MP34SS	No		0.11	U	10MP34SS	No		10		10MP34SS	No		73	160
10MP35SS	No		0.059	U	10MP35SS	No		37		10MP35SS	No		46.2	43
10MP36SS	No	10MP84SS	0.059	U	10MP36SS	No	10MP84SS	18		10MP36SS	No	10MP84SS	64.2	198
10MP37SS	No		0.7		10MP37SS	No		24		10MP37SS	No		35.4	9
10MP38SS	No		0.023	U	10MP38SS	No		22.9		10MP38SS	No		44.4	17
10MP39SS	No		0.056	U	10MP39SS	No		34		10MP39SS	No		40.5	12
10MP40SS	No		0.2		10MP40SS	No		25.4		10MP40SS	No		38.2	9
10MP41SS	No		0.022	U	10MP41SS	No		18.9		10MP41SS	No		24.5	6
10MP424344SS	No		0.054	U	10MP424344SS	No		20		10MP424344SS	No		80.1	22
10MP42SS	No		0.053	U	10MP42SS	No		20		10MP42SS	No		71.4	22
10MP43SS	No		0.052	U	10MP43SS	No		21		10MP43SS	No		73.3	24
10MP44SS	No		0.056	U	10MP44SS	No		19		10MP44SS	No		80.8	23
10MP45SS	No		0.053	U	10MP45SS	No		19		10MP45SS	No		74.4	21
10MP46SS	No		0.11	U	10MP46SS	No		39		10MP46SS	No		91	1 U
10MP47SS	No		0.053	U	10MP47SS	No		20		10MP47SS	No		78.6	18
10MP48SS	No		0.051	U	10MP48SS	No		31		10MP48SS	No		73	3090

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Cadmium (mg/kg)			Chromium (mg/kg)			Copper (mg/kg)			Lead (mg/kg)					
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10MP49SS	No		0.1	U	10MP49SS	No		42		10MP49SS	No		78	
10MP5051525354SS	No		0.1	U	10MP5051525354SS	No		28		10MP5051525354SS	No		79	
10MP50SS	No		0.024	U	10MP50SS	No		20.1		10MP50SS	No		26.8	
10MP51SS	No		0.22	U	10MP51SS	No		41		10MP51SS	No		109	
10MP52SS	No		0.21	U	10MP52SS	No		40		10MP52SS	No		93	
10MP53SS	No		0.053	U	10MP53SS	No		24		10MP53SS	No		68.6	
10MP54SS	No		0.054	U	10MP54SS	No		18		10MP54SS	No		55.9	
10MP55565758SS	No		0.023	U	10MP55565758SS	No		26.9		10MP55565758SS	No		33.2	
10MP55SS	No		0.058	U	10MP55SS	No		31		10MP55SS	No		45.4	
10MP56SS	No		0.021	U	10MP56SS	No		17		10MP56SS	No		20.8	
10MP57SS	No		0.055	U	10MP57SS	No		22		10MP57SS	No		51.5	
10MP58SS	No		0.023	U	10MP58SS	No		24.3		10MP58SS	No		38.5	
10MP59SS	No	10MP86SS	0.051	U	10MP59SS	No	10MP86SS	12		10MP59SS	No	10MP86SS	66.8	
10MP60SS	No		0.052	U	10MP60SS	No		20		10MP60SS	No		73.7	
10MP61SS	No		0.023	U	10MP61SS	No		23.4		10MP61SS	No		40.8	
10MP62SS	No		0.056	U	10MP62SS	No		26		10MP62SS	No		59.7	
10MP63SS	No		0.055	U	10MP63SS	No		28		10MP63SS	No		55.8	
10MP64SS	No		0.055	U	10MP64SS	No		33		10MP64SS	No		52.8	
10MP65SS	No		0.023	U	10MP65SS	No		25.1		10MP65SS	No		35.4	
10MP66SS	No		0.05	U	10MP66SS	No		31		10MP66SS	No		61.2	
10MP67SS	No		0.11	U	10MP67SS	No		36		10MP67SS	No		79	
10MP68SS	No		0.024	U	10MP68SS	No		20.8		10MP68SS	No		30.1	
10MP80SS	No		0.11	U	10MP80SS	No		35		10MP80SS	No		76	
10MP81SS	No	10MP02SS	0.051	U	10MP81SS	No	10MP02SS	6		10MP81SS	No	10MP02SS	67.9	
10MP82SS	No	10MP17SS	0.11	U	10MP82SS	No	10MP17SS	46		10MP82SS	No	10MP17SS	80	
10MP83SS	No		1.3		10MP83SS	No		27		10MP83SS	No		84.2	
10MP84SS	No	10MP36SS	0.057	U	10MP84SS	No	10MP36SS	17		10MP84SS	No	10MP36SS	65.8	
10MP85SS	No		0.052	U	10MP85SS	No		34		10MP85SS	No		61.4	
10MP86SS	No	10MP59SS	0.051	U	10MP86SS	No	10MP59SS	13		10MP86SS	No	10MP59SS	68.3	
10MP87SS	No		0.8		10MP87SS	No		25		10MP87SS	No		96.5	
10MP88SS	No		0.1	U	10MP88SS	No		54		10MP88SS	No		89	
10MP89SS	No	10MP16SS	0.051	U	10MP89SS	No	10MP16SS	36		10MP89SS	No	10MP16SS	54.2	
10OP01SS	No		0.053	U	10OP01SS	No		101		10OP01SS	No		45	
10RD01SS	No		0.6		10RD01SS	No		31.1		10RD01SS	No		28.2	
10RD02SS	No		0.056	U	10RD02SS	No		26		10RD02SS	No		40.3	
10RD03SS	No		0.3		10RD03SS	No		26		10RD03SS	No		29.5	
10RD04SS	No		0.026	U	10RD04SS	No		29.6		10RD04SS	No		38.1	
10RD05SS	No		0.4		10RD05SS	No		22.8		10RD05SS	No		22.2	
10RD06SS	No		0.026	U	10RD06SS	No		25.7		10RD06SS	No		35.7	
10RD07SS	No		0.3		10RD07SS	No		21.5		10RD07SS	No		32.3	
10RD08SS	No	10RD30SS	0.6		10RD08SS	No	10RD30SS	25		10RD08SS	No	10RD30SS	35.5	
10RD09SS	No		0.07	U	10RD09SS	No		28		10RD09SS	No		23.4	
10RD20SS	No		0.022	U	10RD20SS	No		24		10RD20SS	No		81.8	
10RD30SS	No	10RD08SS	0.06	U	10RD30SS	No	10RD08SS	24		10RD30SS	No	10RD08SS	36.8	
10RS01SS	No		0.6		10RS01SS	No		30.5		10RS01SS	No		28	
10RS02SS	No		0.6		10RS02SS	No		29.4		10RS02SS	No		26.9	
10RS03SS	No		0.4		10RS03SS	No		20.6		10RS03SS	No		31.4	
10SM01SS	No		0.053	U	10SM01SS	No		16		10SM01SS	No		89	
10SM02SS	No		0.056	U	10SM02SS	No		17		10SM02SS	No		60	
10SM03SS	No	10SM41SS	0.056	U	10SM03SS	No	10SM41SS	32		10SM03SS	No	10SM41SS	66.5	
10SM04SS	No		0.056	U	10SM04SS	No		23		10SM04SS	No		56.5	
10SM05SS	No		0.055	U	10SM05SS	No		19		10SM05SS	No		87.1	
10SM06SS	No		0.8		10SM06SS	No		11		10SM06SS	No		79.3	
10SM07SS	No		0.11	U	10SM07SS	No		21		10SM07SS	No		44	

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Cadmium (mg/kg)					Chromium (mg/kg)					Copper (mg/kg)					Lead (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM08SS	No		0.9		10SM08SS	No		15		10SM08SS	No		100		10SM08SS	No		22	
10SM09SS	No		1		10SM09SS	No		14		10SM09SS	No		72.3		10SM09SS	No		17	
10SM10SS	No		0.3		10SM10SS	No		25.6		10SM10SS	No		24.7		10SM10SS	No		6	
10SM11SS	No		0.4		10SM11SS	No		26.9		10SM11SS	No		17.8		10SM11SS	No		8	
10SM12SS	No	10SM40SS	0.058	U	10SM12SS	No	10SM40SS	27		10SM12SS	No	10SM40SS	34.2		10SM12SS	No	10SM40SS	10	
10SM13SS	No		0.057	U	10SM13SS	No		21		10SM13SS	No		56.1		10SM13SS	No		14	
10SM14SS	No		0.3		10SM14SS	No		26.1		10SM14SS	No		23.5		10SM14SS	No		7	
10SM15SS	No		0.4		10SM15SS	No		24.6		10SM15SS	No		29.2		10SM15SS	No		8	
10SM16SS	No		0.058	U	10SM16SS	No		21		10SM16SS	No		53.4		10SM16SS	No		12	
10SM17SS	No		0.4		10SM17SS	No		23.8		10SM17SS	No		37.9		10SM17SS	No		9	
10SM18SS	No		0.6		10SM18SS	No		12		10SM18SS	No		71.9		10SM18SS	No		16	
10SM19SS	No		0.054	U	10SM19SS	No		17		10SM19SS	No		57.3		10SM19SS	No		12	
10SM20SS	No		0.3		10SM20SS	No		21		10SM20SS	No		18.7		10SM20SS	No		6	
10SM21SS	No		0.3		10SM21SS	No		27.2		10SM21SS	No		28.2		10SM21SS	No		9	
10SM22SS	No		0.4		10SM22SS	No		27		10SM22SS	No		25.3		10SM22SS	No		7	
10SM23SS	No		0.023	U	10SM23SS	No		22.5		10SM23SS	No		25		10SM23SS	No		6	
10SM24SS	No		0.7		10SM24SS	No		24		10SM24SS	No		53.1		10SM24SS	No		12	
10SM25SS	No		0.6		10SM25SS	No		22		10SM25SS	No		46.4		10SM25SS	No		11	
10SM26SS	No		0.4		10SM26SS	No		20.2		10SM26SS	No		28.2		10SM26SS	No		8	
10SM27SS	No		0.8		10SM27SS	No		21		10SM27SS	No		40.5		10SM27SS	No		11	
10SM28SS	No		0.023	U	10SM28SS	No		22.8		10SM28SS	No		23.5		10SM28SS	No		6	
10SM29SS	No		0.2		10SM29SS	No		23.8		10SM29SS	No		19.7		10SM29SS	No		6	
10SM30SS	No		0.3		10SM30SS	No		30.2		10SM30SS	No		31.7		10SM30SS	No		11	
10SM40SS	No	10SM12SS	0.4		10SM40SS	No	10SM12SS	22.2		10SM40SS	No	10SM12SS	33.3		10SM40SS	No	10SM12SS	9	
10SM41SS	No	10SM03SS	0.054	U	10SM41SS	No	10SM03SS	25		10SM41SS	No	10SM03SS	59		10SM41SS	No	10SM03SS	13	
11MP70SS	No		0.18		11MP70SS	No		18.7		11MP70SS	No		17		11MP70SS	No		6.96	
11MP71SS	No		0.385	J	11MP71SS	No		20.3	J	11MP71SS	No		32.6	J	11MP71SS	No		8.91	

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 1.1
 Min. detected concentration 0.032
 Number of detects 38
 Freq. of Detection 38/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 101
 Min. detected concentration 6
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 139
 Min. detected concentration 17
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 3090
 Min. detected concentration 0.9
 Number of detects 126
 Freq. of Detection 126/135

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Manganese (mg/kg)					Mercury (mg/kg)					Nickel (mg/kg)					Selenium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10DS01SS	No		759		10DS01SS	No		71		10DS01SS	No		54		10DS01SS	No		1.6	U
10DS02SS	No		598		10DS02SS	No		22		10DS02SS	No		42		10DS02SS	No		1.7	U
10DS03SS	No		833		10DS03SS	No		16		10DS03SS	No		39		10DS03SS	No		0.71	U
10MP01SS	No		302		10MP01SS	No		2.6		10MP01SS	No		30		10MP01SS	No		1.9	U
10MP02SS	No	10MP81SS	1190		10MP02SS	No	10MP81SS	88		10MP02SS	No	10MP81SS	97		10MP02SS	No	10MP81SS	3	U
10MP030405SS	No		737		10MP030405SS	No		680		10MP030405SS	No		51		10MP030405SS	No		1.7	U
10MP03SS	No		527		10MP03SS	No		710		10MP03SS	No		55		10MP03SS	No		1.6	U
10MP04SS	No		502		10MP04SS	No		860		10MP04SS	No		53		10MP04SS	No		1.6	U
10MP05SS	No		523		10MP05SS	No		900		10MP05SS	No		45		10MP05SS	No		1.5	U
10MP06070809SS	No		616		10MP06070809SS	No		750		10MP06070809SS	No		62		10MP06070809SS	No		1.7	U
10MP06SS	No		596		10MP06SS	No		750		10MP06SS	No		45		10MP06SS	No		1.6	U
10MP07SS	No		692		10MP07SS	No		790	J	10MP07SS	No		55		10MP07SS	No		3.2	U
10MP08SS	No		688		10MP08SS	No		295		10MP08SS	No		65		10MP08SS	No		1.6	U
10MP09SS	No		650		10MP09SS	No		560		10MP09SS	No		58		10MP09SS	No		1.6	U
10MP10SS	No		813		10MP10SS	No		172		10MP10SS	No		64		10MP10SS	No		1.6	U
10MP11SS	No		785		10MP11SS	No		660		10MP11SS	No		69		10MP11SS	No		1.5	U
10MP12SS	No		801		10MP12SS	No		304		10MP12SS	No		64		10MP12SS	No		3.2	U
10MP13SS	No		676		10MP13SS	No		690		10MP13SS	No		64		10MP13SS	No		3.3	U
10MP14SS	No		874		10MP14SS	No		162		10MP14SS	No		58		10MP14SS	No		1.6	U
10MP15SS	No		694		10MP15SS	No		217		10MP15SS	No		58		10MP15SS	No		3.5	U
10MP16SS	No	10MP89SS	714		10MP16SS	No	10MP89SS	290		10MP16SS	No	10MP89SS	56		10MP16SS	No	10MP89SS	1.5	U
10MP17SS	No	10MP82SS	690		10MP17SS	No	10MP82SS	460		10MP17SS	No	10MP82SS	64		10MP17SS	No	10MP82SS	1.5	U
10MP18SS	No		965		10MP18SS	No		136		10MP18SS	No		54		10MP18SS	No		1.6	U
10MP19SS	No		537		10MP19SS	No		38		10MP19SS	No		40		10MP19SS	No		1.8	U
10MP20SS	No		1040		10MP20SS	No		62		10MP20SS	No		66		10MP20SS	No		1.6	U
10MP21SS	No		1390		10MP21SS	No		63		10MP21SS	No		80		10MP21SS	No		1.6	U
10MP22SS	No		991		10MP22SS	No		106		10MP22SS	No		79		10MP22SS	No		1.6	U
10MP23SS	No		892		10MP23SS	No		261		10MP23SS	No		60		10MP23SS	No		3	U
10MP24SS	No		768		10MP24SS	No		440		10MP24SS	No		77		10MP24SS	No		1.6	U
10MP25SS	No		604		10MP25SS	No		1340		10MP25SS	No		56		10MP25SS	No		3.2	U
10MP26SS	No		829		10MP26SS	No		1620		10MP26SS	No		62		10MP26SS	No		3.1	U
10MP27SS	No		708		10MP27SS	No		250		10MP27SS	No		61		10MP27SS	No		3.2	U
10MP28SS	No		617		10MP28SS	No		820		10MP28SS	No		53		10MP28SS	No		1.5	U
10MP29SS	No		739		10MP29SS	No		440		10MP29SS	No		60		10MP29SS	No		6.3	U
10MP30SS	No		539		10MP30SS	No		400		10MP30SS	No		52		10MP30SS	No		1.7	U
10MP31SS	No		258		10MP31SS	No		0.28		10MP31SS	No		20		10MP31SS	No		0.76	U
10MP32SS	No		708		10MP32SS	No		127		10MP32SS	No		48		10MP32SS	No		3.5	U
10MP33SS	No		158		10MP33SS	No		1.46		10MP33SS	No		18		10MP33SS	No		0.93	U
10MP34SS	No		814		10MP34SS	No		79		10MP34SS	No		52		10MP34SS	No		3.2	U
10MP35SS	No		764		10MP35SS	No		183		10MP35SS	No		61		10MP35SS	No		1.7	U
10MP36SS	No	10MP84SS	1090		10MP36SS	No	10MP84SS	75		10MP36SS	No	10MP84SS	54		10MP36SS	No	10MP84SS	1.7	U
10MP37SS	No		480		10MP37SS	No		3.6		10MP37SS	No		44		10MP37SS	No		1.7	U
10MP38SS	No		540		10MP38SS	No		154		10MP38SS	No		49		10MP38SS	No		0.67	U
10MP39SS	No		486		10MP39SS	No		42		10MP39SS	No		49		10MP39SS	No		1.6	U
10MP40SS	No		310		10MP40SS	No		15		10MP40SS	No		39		10MP40SS	No		0.7	U
10MP41SS	No		313		10MP41SS	No		8		10MP41SS	No		31		10MP41SS	No		0.65	U
10MP424344SS	No		702		10MP424344SS	No		136		10MP424344SS	No		64		10MP424344SS	No		1.6	U
10MP42SS	No		759		10MP42SS	No		124		10MP42SS	No		59		10MP42SS	No		1.6	U
10MP43SS	No		789		10MP43SS	No		149		10MP43SS	No		60		10MP43SS	No		1.5	U
10MP44SS	No		656		10MP44SS	No		86		10MP44SS	No		58		10MP44SS	No		1.7	U
10MP45SS	No		877		10MP45SS	No		87		10MP45SS	No		61		10MP45SS	No		1.6	U
10MP46SS	No		758		10MP46SS	No		194		10MP46SS	No		69		10MP46SS	No		3.2	U
10MP47SS	No		672		10MP47SS	No		118		10MP47SS	No		72		10MP47SS	No		1.6	U
10MP48SS	No		737		10MP48SS	No		1260		10MP48SS	No		48		10MP48SS	No		1.5	U

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Manganese (mg/kg)				Mercury (mg/kg)				Nickel (mg/kg)				Selenium (mg/kg)							
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10MP49SS	No		707		10MP49SS	No		176		10MP49SS	No		60		10MP49SS	No		3.1	U
10MP5051525354SS	No		605		10MP5051525354SS	No		144		10MP5051525354SS	No		54		10MP5051525354SS	No		3.1	U
10MP50SS	No		267		10MP50SS	No		318		10MP50SS	No		24		10MP50SS	No		0.7	U
10MP51SS	No		644		10MP51SS	No		119		10MP51SS	No		60		10MP51SS	No		6.4	U
10MP52SS	No		562		10MP52SS	No		183		10MP52SS	No		60		10MP52SS	No		6.1	U
10MP53SS	No		501		10MP53SS	No		183		10MP53SS	No		48		10MP53SS	No		1.6	U
10MP54SS	No		1110		10MP54SS	No		24.4		10MP54SS	No		48		10MP54SS	No		1.6	U
10MP55565758SS	No		644		10MP55565758SS	No		114		10MP55565758SS	No		38		10MP55565758SS	No		0.67	U
10MP55SS	No		573		10MP55SS	No		124		10MP55SS	No		43	J	10MP55SS	No		1.7	U
10MP56SS	No		309		10MP56SS	No		19.1		10MP56SS	No		24	J	10MP56SS	No		0.61	U
10MP57SS	No		559		10MP57SS	No		150		10MP57SS	No		49	J	10MP57SS	No		1.6	U
10MP58SS	No		415		10MP58SS	No		114		10MP58SS	No		44	J	10MP58SS	No		0.68	U
10MP59SS	No	10MP86SS	991		10MP59SS	No	10MP86SS	115		10MP59SS	No	10MP86SS	60	J	10MP59SS	No	10MP86SS	1.5	U
10MP60SS	No		572		10MP60SS	No		144		10MP60SS	No		57	J	10MP60SS	No		1.5	U
10MP61SS	No		477		10MP61SS	No		68		10MP61SS	No		48	J	10MP61SS	No		0.68	U
10MP62SS	No		616		10MP62SS	No		165		10MP62SS	No		62	J	10MP62SS	No		1.6	U
10MP63SS	No		563		10MP63SS	No		150		10MP63SS	No		57	J	10MP63SS	No		1.6	U
10MP64SS	No		507		10MP64SS	No		172		10MP64SS	No		56	J	10MP64SS	No		1.6	U
10MP65SS	No		411		10MP65SS	No		54		10MP65SS	No		32		10MP65SS	No		0.68	U
10MP66SS	No		879		10MP66SS	No		145		10MP66SS	No		74		10MP66SS	No		1.5	U
10MP67SS	No		673		10MP67SS	No		730		10MP67SS	No		60	J	10MP67SS	No		3.2	U
10MP68SS	No		346		10MP68SS	No		109		10MP68SS	No		38	J	10MP68SS	No		0.7	U
10MP80SS	No		528		10MP80SS	No		780		10MP80SS	No		52	J	10MP80SS	No		3.3	U
10MP81SS	No	10MP02SS	855		10MP81SS	No	10MP02SS	94		10MP81SS	No	10MP02SS	43	J	10MP81SS	No	10MP02SS	1.5	U
10MP82SS	No	10MP17SS	693		10MP82SS	No	10MP17SS	479		10MP82SS	No	10MP17SS	66	J	10MP82SS	No	10MP17SS	3.1	U
10MP83SS	No		711		10MP83SS	No		387		10MP83SS	No		75	J	10MP83SS	No		1.6	U
10MP84SS	No	10MP36SS	1020		10MP84SS	No	10MP36SS	85		10MP84SS	No	10MP36SS	58	J	10MP84SS	No	10MP36SS	1.7	U
10MP85SS	No		761		10MP85SS	No		129		10MP85SS	No		74	J	10MP85SS	No		1.5	U
10MP86SS	No	10MP59SS	822		10MP86SS	No	10MP59SS	98		10MP86SS	No	10MP59SS	64	J	10MP86SS	No	10MP59SS	1.5	U
10MP87SS	No		1500		10MP87SS	No		67		10MP87SS	No		64	J	10MP87SS	No		1.6	U
10MP88SS	No		665		10MP88SS	No		590		10MP88SS	No		66		10MP88SS	No		3	U
10MP89SS	No	10MP16SS	726		10MP89SS	No	10MP16SS	265		10MP89SS	No	10MP16SS	56		10MP89SS	No	10MP16SS	1.5	U
10OP01SS	No		711		10OP01SS	No		170		10OP01SS	No		66		10OP01SS	No		1.6	U
10RD01SS	No		635		10RD01SS	No		1.74		10RD01SS	No		33		10RD01SS	No		0.88	U
10RD02SS	No		622		10RD02SS	No		43		10RD02SS	No		43		10RD02SS	No		1.6	U
10RD03SS	No		542		10RD03SS	No		28		10RD03SS	No		35		10RD03SS	No		0.71	U
10RD04SS	No		545		10RD04SS	No		99		10RD04SS	No		46		10RD04SS	No		0.77	U
10RD05SS	No		221		10RD05SS	No		3.8		10RD05SS	No		25		10RD05SS	No		0.8	U
10RD06SS	No		356		10RD06SS	No		186		10RD06SS	No		35		10RD06SS	No		0.76	U
10RD07SS	No		312		10RD07SS	No		16		10RD07SS	No		32		10RD07SS	No		0.7	U
10RD08SS	No	10RD30SS	595		10RD08SS	No	10RD30SS	0.9		10RD08SS	No	10RD30SS	44		10RD08SS	No	10RD30SS	1.7	U
10RD09SS	No		936		10RD09SS	No		2		10RD09SS	No		33	J	10RD09SS	No		2.1	U
10RD20SS	No		434		10RD20SS	No		75		10RD20SS	No		38		10RD20SS	No		0.63	U
10RD30SS	No	10RD08SS	581		10RD30SS	No	10RD08SS	0.22	U	10RD30SS	No	10RD08SS	43		10RD30SS	No	10RD08SS	1.8	U
10RS01SS	No		655		10RS01SS	No		1.25		10RS01SS	No		33		10RS01SS	No		0.88	U
10RS02SS	No		609		10RS02SS	No		1.15		10RS02SS	No		32		10RS02SS	No		0.78	U
10RS03SS	No		719		10RS03SS	No		3.57		10RS03SS	No		32		10RS03SS	No		0.77	U
10SM01SS	No		844		10SM01SS	No		29		10SM01SS	No		78		10SM01SS	No		1.6	U
10SM02SS	No		854		10SM02SS	No		44		10SM02SS	No		67		10SM02SS	No		1.7	U
10SM03SS	No	10SM41SS	723		10SM03SS	No	10SM41SS	21		10SM03SS	No	10SM41SS	64		10SM03SS	No	10SM41SS	1.7	U
10SM04SS	No		1130		10SM04SS	No		31		10SM04SS	No		55		10SM04SS	No		1.6	U
10SM05SS	No		4230		10SM05SS	No		102		10SM05SS	No		86		10SM05SS	No		1.6	U
10SM06SS	No		1430		10SM06SS	No		25		10SM06SS	No		78		10SM06SS	No		1.6	U
10SM07SS	No		362		10SM07SS	No		174		10SM07SS	No		31		10SM07SS	No		3.3	U

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Manganese (mg/kg)					Mercury (mg/kg)					Nickel (mg/kg)					Selenium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM08SS	No		780		10SM08SS	No		8		10SM08SS	No		61		10SM08SS	No		1.7	U
10SM09SS	No		1040		10SM09SS	No		9		10SM09SS	No		64		10SM09SS	No		1.6	U
10SM10SS	No		340		10SM10SS	No		0.15	J	10SM10SS	No		24		10SM10SS	No		0.65	U
10SM11SS	No		323		10SM11SS	No		0.17	J	10SM11SS	No		27		10SM11SS	No		0.71	U
10SM12SS	No	10SM40SS	529		10SM12SS	No	10SM40SS	5.4	J	10SM12SS	No	10SM40SS	32		10SM12SS	No	10SM40SS	1.7	U
10SM13SS	No		1150		10SM13SS	No		23	J	10SM13SS	No		47		10SM13SS	No		1.7	U
10SM14SS	No		307		10SM14SS	No		0.14	J	10SM14SS	No		26		10SM14SS	No		0.68	U
10SM15SS	No		479		10SM15SS	No		0.62	J	10SM15SS	No		29		10SM15SS	No		0.69	U
10SM16SS	No		1050		10SM16SS	No		8.8	J	10SM16SS	No		52		10SM16SS	No		1.7	U
10SM17SS	No		526		10SM17SS	No		12	J	10SM17SS	No		37		10SM17SS	No		0.67	U
10SM18SS	No		1250		10SM18SS	No		11	J	10SM18SS	No		57		10SM18SS	No		1.7	U
10SM19SS	No		776		10SM19SS	No		14	J	10SM19SS	No		59		10SM19SS	No		1.6	U
10SM20SS	No		153		10SM20SS	No		0.11	J	10SM20SS	No		19		10SM20SS	No		0.7	U
10SM21SS	No		476		10SM21SS	No		2	J	10SM21SS	No		28		10SM21SS	No		0.68	U
10SM22SS	No		367		10SM22SS	No		0.05	J	10SM22SS	No		23		10SM22SS	No		0.7	U
10SM23SS	No		316		10SM23SS	No		8.2	J	10SM23SS	No		25		10SM23SS	No		0.67	U
10SM24SS	No		870		10SM24SS	No		0.26	J	10SM24SS	No		46		10SM24SS	No		1.7	U
10SM25SS	No		1030		10SM25SS	No		0.9	J	10SM25SS	No		55		10SM25SS	No		1.6	U
10SM26SS	No		517		10SM26SS	No		0.64	J	10SM26SS	No		26		10SM26SS	No		0.7	U
10SM27SS	No		1090		10SM27SS	No		1.9	J	10SM27SS	No		35		10SM27SS	No		1.7	U
10SM28SS	No		435		10SM28SS	No		17	J	10SM28SS	No		26		10SM28SS	No		0.68	U
10SM29SS	No		319		10SM29SS	No		0.17	J	10SM29SS	No		22		10SM29SS	No		0.72	U
10SM30SS	No		481		10SM30SS	No		1.9	J	10SM30SS	No		33		10SM30SS	No		0.78	U
10SM40SS	No	10SM12SS	393		10SM40SS	No	10SM12SS	3.6	J	10SM40SS	No	10SM12SS	31		10SM40SS	No	10SM12SS	0.68	U
10SM41SS	No	10SM03SS	817		10SM41SS	No	10SM03SS	24	J	10SM41SS	No	10SM03SS	59		10SM41SS	No	10SM03SS	1.6	U
11MP70SS	No		738		11MP70SS	No		0.807	J	11MP70SS	No		29.3		11MP70SS	No		0.42	
11MP71SS	No		703		11MP71SS	No		0.428		11MP71SS	No		39.9	J	11MP71SS	No		0.24	

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 4230
 Min. detected concentration 153
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 1620
 Min. detected concentration 0.05
 Number of detects 134
 Freq. of Detection 134/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 97
 Min. detected concentration 18
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 0.42
 Min. detected concentration 0.24
 Number of detects 2
 Freq. of Detection 2/135

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Thallium (mg/kg)				Vanadium (mg/kg)				Zinc (mg/kg)			
sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.
10DS01SS	No		0.7 U	10DS01SS	No		33.2	10DS01SS	No		116
10DS02SS	No		0.7 U	10DS02SS	No		31	10DS02SS	No		98
10DS03SS	No		0.3 U	10DS03SS	No		32.2	10DS03SS	No		93
10MP01SS	No		0.8 U	10MP01SS	No		47	10MP01SS	No		71
10MP02SS	No	10MP81SS	1.3 U	10MP02SS	No	10MP81SS	20	10MP02SS	No	10MP81SS	159
10MP030405SS	No		0.7 U	10MP030405SS	No		36.2	10MP030405SS	No		115
10MP03SS	No		0.7 U	10MP03SS	No		33.9	10MP03SS	No		115
10MP04SS	No		0.7 U	10MP04SS	No		33.5	10MP04SS	No		110
10MP05SS	No		0.7 U	10MP05SS	No		34.7	10MP05SS	No		106
10MP06070809SS	No		0.7 U	10MP06070809SS	No		33.5	10MP06070809SS	No		120
10MP06SS	No		0.7 U	10MP06SS	No		29	10MP06SS	No		95
10MP07SS	No		1.4 U	10MP07SS	No		29	10MP07SS	No		110
10MP08SS	No		0.7 U	10MP08SS	No		31.4	10MP08SS	No		135
10MP09SS	No		0.7 U	10MP09SS	No		30.3	10MP09SS	No		107
10MP10SS	No		0.7 U	10MP10SS	No		39	10MP10SS	No		136
10MP11SS	No		0.6 U	10MP11SS	No		34.5	10MP11SS	No		126
10MP12SS	No		1.4 U	10MP12SS	No		32	10MP12SS	No		122
10MP13SS	No		1.4 U	10MP13SS	No		31	10MP13SS	No		115
10MP14SS	No		0.7 U	10MP14SS	No		36.4	10MP14SS	No		118
10MP15SS	No		1.5 U	10MP15SS	No		32	10MP15SS	No		125
10MP16SS	No	10MP89SS	0.7 U	10MP16SS	No	10MP89SS	27.6	10MP16SS	No	10MP89SS	93
10MP17SS	No	10MP82SS	0.7 U	10MP17SS	No	10MP82SS	34.8	10MP17SS	No	10MP82SS	123
10MP18SS	No		0.7 U	10MP18SS	No		35.8	10MP18SS	No		112
10MP19SS	No		0.7 U	10MP19SS	No		45.4	10MP19SS	No		83
10MP20SS	No		0.7 U	10MP20SS	No		39.8	10MP20SS	No		386
10MP21SS	No		0.7 U	10MP21SS	No		49.5	10MP21SS	No		209
10MP22SS	No		0.7 U	10MP22SS	No		31.6	10MP22SS	No		160
10MP23SS	No		1.3 U	10MP23SS	No		33	10MP23SS	No		117
10MP24SS	No		0.7 U	10MP24SS	No		27.3	10MP24SS	No		152
10MP25SS	No		1.3 U	10MP25SS	No		31	10MP25SS	No		113
10MP26SS	No		1.3 U	10MP26SS	No		34	10MP26SS	No		122
10MP27SS	No		1.4 U	10MP27SS	No		32	10MP27SS	No		108
10MP28SS	No		0.7 U	10MP28SS	No		31.1	10MP28SS	No		108
10MP29SS	No		2.7 U	10MP29SS	No		35	10MP29SS	No		120
10MP30SS	No		0.7 U	10MP30SS	No		29.4	10MP30SS	No		94
10MP31SS	No		0.32 U	10MP31SS	No		47.5	10MP31SS	No		51
10MP32SS	No		1.5 U	10MP32SS	No		21	10MP32SS	No		112
10MP33SS	No		0.4 U	10MP33SS	No		32.2	10MP33SS	No		38
10MP34SS	No		1.4 U	10MP34SS	No		20	10MP34SS	No		109
10MP35SS	No		0.7 U	10MP35SS	No		35.6	10MP35SS	No		90
10MP36SS	No	10MP84SS	0.7 U	10MP36SS	No	10MP84SS	25.3	10MP36SS	No	10MP84SS	110
10MP37SS	No		0.7 U	10MP37SS	No		41.1	10MP37SS	No		88
10MP38SS	No		0.28 U	10MP38SS	No		35.6	10MP38SS	No		90
10MP39SS	No		0.7 U	10MP39SS	No		34.1	10MP39SS	No		84
10MP40SS	No		0.3 U	10MP40SS	No		39.3	10MP40SS	No		94
10MP41SS	No		0.28 U	10MP41SS	No		30.8	10MP41SS	No		60
10MP424344SS	No		0.7 U	10MP424344SS	No		32.7	10MP424344SS	No		145
10MP42SS	No		0.7 U	10MP42SS	No		30.9	10MP42SS	No		126
10MP43SS	No		0.7 U	10MP43SS	No		31.2	10MP43SS	No		124
10MP44SS	No		0.7 U	10MP44SS	No		35.5	10MP44SS	No		147
10MP45SS	No		0.7 U	10MP45SS	No		37.3	10MP45SS	No		140
10MP46SS	No		1.3 U	10MP46SS	No		34	10MP46SS	No		126
10MP47SS	No		0.7 U	10MP47SS	No		31.9	10MP47SS	No		146
10MP48SS	No		0.6 U	10MP48SS	No		32.2	10MP48SS	No		116

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Thallium (mg/kg)				Vanadium (mg/kg)				Zinc (mg/kg)			
sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.
10MP49SS	No		1.3 U	10MP49SS	No		34	10MP49SS	No		128
SS	No		1.3 U	10MP5051525354SS	No		32	10MP5051525354SS	No		113
10MP50SS	No		0.29 U	10MP50SS	No		30.6	10MP50SS	No		108
10MP51SS	No		2.7 U	10MP51SS	No		28	10MP51SS	No		100
10MP52SS	No		2.6 U	10MP52SS	No		30	10MP52SS	No		120
10MP53SS	No		0.7 U	10MP53SS	No		29.8	10MP53SS	No		107
10MP54SS	No		0.7 U	10MP54SS	No		30.9	10MP54SS	No		103
10MP55565758SS	No		0.28 U	10MP55565758SS	No		27.3	10MP55565758SS	No		68
10MP55SS	No		0.7 U	10MP55SS	No		28.9	10MP55SS	No		93
10MP56SS	No		0.26 U	10MP56SS	No		24.7	10MP56SS	No		48
10MP57SS	No		0.7 U	10MP57SS	No		28	10MP57SS	No		97
10MP58SS	No		0.29 U	10MP58SS	No		28.4	10MP58SS	No		82
10MP59SS	No	10MP86SS	0.6 U	10MP59SS	No	10MP86SS	24.3	10MP59SS	No	10MP86SS	104
10MP60SS	No		0.6 U	10MP60SS	No		29.6	10MP60SS	No		114
10MP61SS	No		0.29 U	10MP61SS	No		33.2	10MP61SS	No		89
10MP62SS	No		0.7 U	10MP62SS	No		31.4	10MP62SS	No		104
10MP63SS	No		0.7 U	10MP63SS	No		27.7	10MP63SS	No		98
10MP64SS	No		0.7 U	10MP64SS	No		28.6	10MP64SS	No		92
10MP65SS	No		0.29 U	10MP65SS	No		31.5	10MP65SS	No		73
10MP66SS	No		0.6 U	10MP66SS	No		32.4	10MP66SS	No		102
10MP67SS	No		1.4 U	10MP67SS	No		32	10MP67SS	No		100
10MP68SS	No		0.3 U	10MP68SS	No		30.9	10MP68SS	No		77
10MP80SS	No		1.4 U	10MP80SS	No		31	10MP80SS	No		109
10MP81SS	No	10MP02SS	0.6 U	10MP81SS	No	10MP02SS	15.3	10MP81SS	No	10MP02SS	101
10MP82SS	No	10MP17SS	1.3 U	10MP82SS	No	10MP17SS	34	10MP82SS	No	10MP17SS	127
10MP83SS	No		0.7 U	10MP83SS	No		26.9	10MP83SS	No		146
10MP84SS	No	10MP36SS	0.7 U	10MP84SS	No	10MP36SS	24.5	10MP84SS	No	10MP36SS	111
10MP85SS	No		0.6 U	10MP85SS	No		29.7	10MP85SS	No		94
10MP86SS	No	10MP59SS	0.6 U	10MP86SS	No	10MP59SS	23.4	10MP86SS	No	10MP59SS	106
10MP87SS	No		0.7 U	10MP87SS	No		43	10MP87SS	No		177
10MP88SS	No		1.3 U	10MP88SS	No		36	10MP88SS	No		125 J
10MP89SS	No	10MP16SS	0.6 U	10MP89SS	No	10MP16SS	26.3	10MP89SS	No	10MP16SS	93 J
10OP01SS	No		0.7 U	10OP01SS	No		37.5	10OP01SS	No		103
10RD01SS	No		0.37 U	10RD01SS	No		42.4	10RD01SS	No		93 J
10RD02SS	No		0.7 U	10RD02SS	No		30.3	10RD02SS	No		93 J
10RD03SS	No		0.3 U	10RD03SS	No		30.7	10RD03SS	No		83 J
10RD04SS	No		0.32 U	10RD04SS	No		34.9	10RD04SS	No		110 J
10RD05SS	No		0.34 U	10RD05SS	No		35.7	10RD05SS	No		76 J
10RD06SS	No		0.32 U	10RD06SS	No		29.7	10RD06SS	No		76 J
10RD07SS	No		0.3 U	10RD07SS	No		37.8	10RD07SS	No		69 J
10RD08SS	No	10RD30SS	0.7 U	10RD08SS	No	10RD30SS	42.5	10RD08SS	No	10RD30SS	89 J
10RD09SS	No		0.9 U	10RD09SS	No		48	10RD09SS	No		73
10RD20SS	No		0.27 U	10RD20SS	No		28.8	10RD20SS	No		80
10RD30SS	No	10RD08SS	0.8 U	10RD30SS	No	10RD08SS	41.7	10RD30SS	No	10RD08SS	90
10RS01SS	No		0.37 U	10RS01SS	No		40.3	10RS01SS	No		103
10RS02SS	No		0.33 U	10RS02SS	No		39.6	10RS02SS	No		93
10RS03SS	No		0.32 U	10RS03SS	No		33.6	10RS03SS	No		72
10SM01SS	No		0.7 U	10SM01SS	No		23.4	10SM01SS	No		136
10SM02SS	No		0.7 U	10SM02SS	No		29.4	10SM02SS	No		122
10SM03SS	No	10SM41SS	0.7 U	10SM03SS	No	10SM41SS	32.1	10SM03SS	No	10SM41SS	120
10SM04SS	No		0.7 U	10SM04SS	No		36	10SM04SS	No		116
10SM05SS	No		0.7 U	10SM05SS	No		32.3	10SM05SS	No		159
10SM06SS	No		0.7 U	10SM06SS	No		25.3	10SM06SS	No		159
10SM07SS	No		1.4 U	10SM07SS	No		25	10SM07SS	No		77

Surface Soil Sample Metals Results for the Red Devil Mine Site.

Thallium (mg/kg)				Vanadium (mg/kg)				Zinc (mg/kg)						
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM08SS	No		0.7	U	10SM08SS	No		33		10SM08SS	No		126	
10SM09SS	No		0.7	U	10SM09SS	No		28.6		10SM09SS	No		148	
10SM10SS	No		0.27	U	10SM10SS	No		42		10SM10SS	No		57	
10SM11SS	No		0.3	U	10SM11SS	No		44.3		10SM11SS	No		64	
10SM12SS	No	10SM40SS	0.7	U	10SM12SS	No	10SM40SS	43.6		10SM12SS	No	10SM40SS	74	
10SM13SS	No		0.7	U	10SM13SS	No		36.4		10SM13SS	No		108	
10SM14SS	No		0.29	U	10SM14SS	No		42.4		10SM14SS	No		60	
10SM15SS	No		0.29	U	10SM15SS	No		41.4		10SM15SS	No		64	
10SM16SS	No		0.7	U	10SM16SS	No		39.5		10SM16SS	No		104	
10SM17SS	No		0.28	U	10SM17SS	No		37.9		10SM17SS	No		76	
10SM18SS	No		0.7	U	10SM18SS	No		23		10SM18SS	No		139	
10SM19SS	No		0.7	U	10SM19SS	No		30.6		10SM19SS	No		110	
10SM20SS	No		0.29	U	10SM20SS	No		35.8		10SM20SS	No		45	
10SM21SS	No		0.29	U	10SM21SS	No		46.8		10SM21SS	No		67	
10SM22SS	No		0.3	U	10SM22SS	No		47.9		10SM22SS	No		61	
10SM23SS	No		0.28	U	10SM23SS	No		35.5		10SM23SS	No		56	
10SM24SS	No		0.7	U	10SM24SS	No		41.6		10SM24SS	No		108	
10SM25SS	No		0.7	U	10SM25SS	No		43.7		10SM25SS	No		109	
10SM26SS	No		0.3	U	10SM26SS	No		37.3		10SM26SS	No		62	
10SM27SS	No		0.7	U	10SM27SS	No		37.8		10SM27SS	No		85	
10SM28SS	No		0.29	U	10SM28SS	No		36.4		10SM28SS	No		52	
10SM29SS	No		0.3	U	10SM29SS	No		40		10SM29SS	No		50	
10SM30SS	No		0.33	U	10SM30SS	No		51.9		10SM30SS	No		75	
10SM40SS	No	10SM12SS	0.29	U	10SM40SS	No	10SM12SS	36.1		10SM40SS	No	10SM12SS	71	
10SM41SS	No	10SM03SS	0.7	U	10SM41SS	No	10SM03SS	30.7		10SM41SS	No	10SM03SS	109	
11MP70SS	No		0.065		11MP70SS	No		30.9		11MP70SS	No		64.9	
11MP71SS	No		0.071		11MP71SS	No		35.4		11MP71SS	No		85.5	J

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 0.065
 Min. detected concentration 0.071
 Number of detects 2
 Freq. of Detection 2/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 51.9
 Min. detected concentration 15.3
 Number of detects 135
 Freq. of Detection 135/135

Results 135
 Field Dups 8
 Number of Original Samples 127
 Max. detected concentration 386
 Min. detected concentration 38
 Number of detects 135
 Freq. of Detection 135/135

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Antimony (mg/kg)		Result		Qual.		Arsenic (mg/kg)		Result		Qual.		Barium (mg/kg)		Result		Qual.		Beryllium (mg/kg)		Result		Qual.			
sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			
10DS01SS	No		40	J	10DS01SS	No		1010		10DS01SS	No		171		10DS01SS	No				10DS01SS	No			0.8	
10DS02SS	No		40	J	10DS02SS	No		550		10DS02SS	No		174		10DS02SS	No				10DS02SS	No			0.6	
10DS03SS	No		21	J	10DS03SS	No		355		10DS03SS	No		166		10DS03SS	No				10DS03SS	No			0.6	
10MP01SS	No		20	J	10MP01SS	No		100		10MP01SS	No		84		10MP01SS	No				10MP01SS	No			0.4	
10MP02SS	No	10MP81SS			10MP02SS	No	10MP81SS	7310		10MP02SS	No	10MP81SS	134		10MP02SS	No	10MP81SS			10MP02SS	No	10MP81SS		1.3	
10MP030405SS	No		5500	J	10MP030405SS	No		5580		10MP030405SS	No		639		10MP030405SS	No				10MP030405SS	No			0.9	
10MP03SS	No		4720	J	10MP03SS	No		5200		10MP03SS	No		769		10MP03SS	No				10MP03SS	No			0.9	
10MP04SS	No		5530	J	10MP04SS	No		6670		10MP04SS	No		750		10MP04SS	No				10MP04SS	No			0.9	
10MP05SS	No		4460	J	10MP05SS	No		5660		10MP05SS	No		697		10MP05SS	No				10MP05SS	No			0.9	
10MP06070809SS	No		4420	J	10MP06070809SS	No		4520		10MP06070809SS	No		496		10MP06070809SS	No				10MP06070809SS	No			0.9	
10MP06SS	No		5750	J	10MP06SS	No		5640		10MP06SS	No		580		10MP06SS	No				10MP06SS	No			0.9	
10MP07SS	No		8200	J	10MP07SS	No		4280		10MP07SS	No		572		10MP07SS	No				10MP07SS	No			0.9	
10MP08SS	No		1220	J	10MP08SS	No		3040		10MP08SS	No		286		10MP08SS	No				10MP08SS	No			0.8	
10MP09SS	No		1990	J	10MP09SS	No		4200		10MP09SS	No		424		10MP09SS	No				10MP09SS	No			0.8	
10MP10SS	No		470	J	10MP10SS	No		1540		10MP10SS	No		225		10MP10SS	No				10MP10SS	No			0.8	
10MP11SS	No		6980	J	10MP11SS	No		5320		10MP11SS	No		796		10MP11SS	No				10MP11SS	No			1	
10MP12SS	No		10900	J	10MP12SS	No		4870		10MP12SS	No		746		10MP12SS	No				10MP12SS	No			1	
10MP13SS	No		12100	J	10MP13SS	No		4890		10MP13SS	No		840		10MP13SS	No				10MP13SS	No			0.9	
10MP14SS	No		3400	J	10MP14SS	No		2320		10MP14SS	No		462		10MP14SS	No				10MP14SS	No			0.8	
10MP15SS	No		11800	J	10MP15SS	No		4660		10MP15SS	No		1160		10MP15SS	No				10MP15SS	No			1.1	
10MP16SS	No	10MP89SS	1570	J	10MP16SS	No	10MP89SS	6950		10MP16SS	No	10MP89SS	358		10MP16SS	No	10MP89SS			10MP16SS	No	10MP89SS		0.7	
10MP17SS	No	10MP82SS			10MP17SS	No	10MP82SS	5540		10MP17SS	No	10MP82SS	1020		10MP17SS	No	10MP82SS			10MP17SS	No	10MP82SS		1	
10MP18SS	No		4810	J	10MP18SS	No		2570		10MP18SS	No		462		10MP18SS	No				10MP18SS	No			0.8	
10MP19SS	No		40		10MP19SS	No		170		10MP19SS	No		90.3		10MP19SS	No				10MP19SS	No			0.6	
10MP20SS	No		40		10MP20SS	No		230		10MP20SS	No		213		10MP20SS	No				10MP20SS	No			0.7	
10MP21SS	No		80		10MP21SS	No		360		10MP21SS	No		319		10MP21SS	No				10MP21SS	No			0.8	
10MP22SS	No		2500		10MP22SS	No		1960		10MP22SS	No		346		10MP22SS	No				10MP22SS	No			0.8	
10MP23SS	No		8720		10MP23SS	No		4380		10MP23SS	No		598		10MP23SS	No				10MP23SS	No			0.9	
10MP24SS	No		1180		10MP24SS	No		2020		10MP24SS	No		277		10MP24SS	No				10MP24SS	No			0.7	
10MP25SS	No		14100		10MP25SS	No		5400		10MP25SS	No		882		10MP25SS	No				10MP25SS	No			1	
10MP26SS	No		15100		10MP26SS	No		6420		10MP26SS	No		890		10MP26SS	No				10MP26SS	No			1	
10MP27SS	No		8480		10MP27SS	No		6100		10MP27SS	No		735		10MP27SS	No				10MP27SS	No			1	
10MP28SS	No		4780		10MP28SS	No		5350		10MP28SS	No		682		10MP28SS	No				10MP28SS	No			0.9	
10MP29SS	No		16700		10MP29SS	No		6170		10MP29SS	No		870		10MP29SS	No				10MP29SS	No			0.21	U
10MP30SS	No		720		10MP30SS	No		2930		10MP30SS	No		263		10MP30SS	No				10MP30SS	No			0.7	
10MP31SS	No		7		10MP31SS	No		19		10MP31SS	No		76.2		10MP31SS	No				10MP31SS	No			0.4	
10MP32SS	No		1430		10MP32SS	No		9880		10MP32SS	No		126		10MP32SS	No				10MP32SS	No			0.7	
10MP33SS	No		9		10MP33SS	No		18		10MP33SS	No		112		10MP33SS	No				10MP33SS	No			0.3	
10MP34SS	No		780		10MP34SS	No		8510		10MP34SS	No		101		10MP34SS	No				10MP34SS	No			0.7	
10MP35SS	No		1680		10MP35SS	No		2390		10MP35SS	No		474		10MP35SS	No				10MP35SS	No			0.6	
10MP36SS	No	10MP84SS	690		10MP36SS	No	10MP84SS	7050		10MP36SS	No	10MP84SS	145		10MP36SS	No	10MP84SS			10MP36SS	No	10MP84SS		0.8	
10MP37SS	No		20		10MP37SS	No		60		10MP37SS	No		144		10MP37SS	No				10MP37SS	No			0.5	
10MP38SS	No		760		10MP38SS	No		992		10MP38SS	No		207		10MP38SS	No				10MP38SS	No			0.6	
10MP39SS	No		1910		10MP39SS	No		1770		10MP39SS	No		401		10MP39SS	No				10MP39SS	No			0.6	
10MP40SS	No		267		10MP40SS	No		375		10MP40SS	No		162		10MP40SS	No				10MP40SS	No			0.5	
10MP41SS	No		39		10MP41SS	No		516		10MP41SS	No		102		10MP41SS	No				10MP41SS	No			0.4	
10MP424344SS	No		880		10MP424344SS	No		1840		10MP424344SS	No		211		10MP424344SS	No				10MP424344SS	No			0.8	
10MP42SS	No		560		10MP42SS	No		1770		10MP42SS	No		218		10MP42SS	No				10MP42SS	No			0.8	
10MP43SS	No		720		10MP43SS	No		2080		10MP43SS	No		224		10MP43SS	No				10MP43SS	No			0.8	
10MP44SS	No		340		10MP44SS	No		860		10MP44SS	No		196		10MP44SS	No				10MP44SS	No			0.7	
10MP45SS	No		220		10MP45SS	No		1800		10MP45SS	No		205		10MP45SS	No				10MP45SS	No			0.9	
10MP46SS	No		13000		10MP46SS	No		4940		10MP46SS	No		892		10MP46SS	No				10MP46SS	No			1.1	
10MP47SS	No		90		10MP47SS	No		1180		10MP47SS	No		191		10MP47SS	No				10MP47SS	No			0.8	

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Antimony (mg/kg)		Result		Qual.		Arsenic (mg/kg)		Result		Qual.		Barium (mg/kg)		Result		Qual.		Beryllium (mg/kg)		Result		Qual.		
sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate			sample-num	Bkgd Samp?	Duplicate		
10MP48SS	No		5980	J	10MP48SS	No		3940		10MP48SS	No		498		10MP48SS	No				10MP48SS	No			0.8
10MP49SS	No		10900	J	10MP49SS	No		4130		10MP49SS	No		562		10MP49SS	No				10MP49SS	No			0.8
10MP5051525354SS	No		10100	J	10MP5051525354SS	No		3610		10MP5051525354SS	No		431		10MP5051525354SS	No				10MP5051525354SS	No			0.8
10MP50SS	No		210	J	10MP50SS	No		826		10MP50SS	No		135		10MP50SS	No				10MP50SS	No			0.4
10MP51SS	No		23300	J	10MP51SS	No		4610		10MP51SS	No		732		10MP51SS	No				10MP51SS	No			0.22 U
10MP52SS	No		18500	J	10MP52SS	No		5000		10MP52SS	No		663		10MP52SS	No				10MP52SS	No			0.21 U
10MP53SS	No		1480	J	10MP53SS	No		3000		10MP53SS	No		291		10MP53SS	No				10MP53SS	No			0.8
10MP54SS	No		20	J	10MP54SS	No		1360		10MP54SS	No		186		10MP54SS	No				10MP54SS	No			0.7
10MP55565758SS	No		764	J	10MP55565758SS	No		1100		10MP55565758SS	No		221		10MP55565758SS	No				10MP55565758SS	No			0.5
10MP55SS	No		1890	J	10MP55SS	No		2150		10MP55SS	No		340		10MP55SS	No				10MP55SS	No			0.6
10MP56SS	No		183	J	10MP56SS	No		333		10MP56SS	No		119		10MP56SS	No				10MP56SS	No			0.3
10MP57SS	No		1630	J	10MP57SS	No		2000		10MP57SS	No		269		10MP57SS	No				10MP57SS	No			0.6
10MP58SS	No		716	J	10MP58SS	No		1080		10MP58SS	No		256		10MP58SS	No				10MP58SS	No			0.5
10MP59SS	No	10MP86SS	170	J	10MP59SS	No	10MP86SS	1130		10MP59SS	No	10MP86SS			10MP59SS	No	10MP86SS			10MP59SS	No	10MP86SS		
10MP60SS	No		660	J	10MP60SS	No		1800		10MP60SS	No		217		10MP60SS	No				10MP60SS	No			0.8
10MP61SS	No		1200	J	10MP61SS	No		1410		10MP61SS	No		211		10MP61SS	No				10MP61SS	No			0.6
10MP62SS	No		1590	J	10MP62SS	No		1880		10MP62SS	No		297		10MP62SS	No				10MP62SS	No			0.8
10MP63SS	No		2680	J	10MP63SS	No		2880		10MP63SS	No		319		10MP63SS	No				10MP63SS	No			0.7
10MP64SS	No		1810	J	10MP64SS	No		2520		10MP64SS	No		371		10MP64SS	No				10MP64SS	No			0.7
10MP65SS	No		589	J	10MP65SS	No		1200		10MP65SS	No		255		10MP65SS	No				10MP65SS	No			0.5
10MP66SS	No		220	J	10MP66SS	No		2490		10MP66SS	No		212		10MP66SS	No				10MP66SS	No			0.9
10MP67SS	No		9830	J	10MP67SS	No		5240		10MP67SS	No		622		10MP67SS	No				10MP67SS	No			0.9
10MP68SS	No		351	J	10MP68SS	No		959		10MP68SS	No		149		10MP68SS	No				10MP68SS	No			0.5
10MP80SS	No		5600	J	10MP80SS	No		5800		10MP80SS	No		567		10MP80SS	No				10MP80SS	No			0.9
10MP81SS	No	10MP02SS	250	J	10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS		
10MP82SS	No	10MP17SS	7300	J	10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS		
10MP83SS	No		1670	J	10MP83SS	No		1940		10MP83SS	No		251		10MP83SS	No				10MP83SS	No			0.6
10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS		
10MP85SS	No		850	J	10MP85SS	No		2160		10MP85SS	No		208		10MP85SS	No				10MP85SS	No			0.9
10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS		
10MP87SS	No		90	J	10MP87SS	No		320		10MP87SS	No		297		10MP87SS	No				10MP87SS	No			0.7
10MP88SS	No		11500	J	10MP88SS	No		5780		10MP88SS	No		880		10MP88SS	No				10MP88SS	No			1.1
10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS		
10OP01SS	No		3520	J	10OP01SS	No		5340		10OP01SS	No		1710		10OP01SS	No				10OP01SS	No			0.8
10RD01SS	No		0.61	U	10RD01SS	No		39		10RD01SS	No		204		10RD01SS	No				10RD01SS	No			0.5
10RD02SS	No		530	J	10RD02SS	No		1280		10RD02SS	No		287		10RD02SS	No				10RD02SS	No			0.6
10RD03SS	No		479	J	10RD03SS	No		950		10RD03SS	No		265		10RD03SS	No				10RD03SS	No			0.6
10RD04SS	No		381	J	10RD04SS	No		1210		10RD04SS	No		248		10RD04SS	No				10RD04SS	No			0.6
10RD05SS	No		39	J	10RD05SS	No		67		10RD05SS	No		165		10RD05SS	No				10RD05SS	No			0.4
10RD06SS	No		677	J	10RD06SS	No		1250		10RD06SS	No		215		10RD06SS	No				10RD06SS	No			0.5
10RD07SS	No		30	J	10RD07SS	No		76		10RD07SS	No		120		10RD07SS	No				10RD07SS	No			0.5
10RD08SS	No	10RD30SS	1.2	U	10RD08SS	No	10RD30SS	30		10RD08SS	No	10RD30SS	157		10RD08SS	No	10RD30SS			10RD08SS	No	10RD30SS		0.5
10RD09SS	No		1.4	UJ	10RD09SS	No		20		10RD09SS	No		162		10RD09SS	No				10RD09SS	No			0.5
10RD20SS	No		974	J	10RD20SS	No		1310		10RD20SS	No		218		10RD20SS	No				10RD20SS	No			0.7
10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS		
10RS01SS	No		34	J	10RS01SS	No		29		10RS01SS	No		202	J	10RS01SS	No				10RS01SS	No			0.5
10RS02SS	No		9	J	10RS02SS	No		30		10RS02SS	No		188	J	10RS02SS	No				10RS02SS	No			0.6
10RS03SS	No		0.53	UJ	10RS03SS	No		110		10RS03SS	No		154	J	10RS03SS	No				10RS03SS	No			0.4
10SM01SS	No		40	J	10SM01SS	No		1710		10SM01SS	No		173	J	10SM01SS	No				10SM01SS	No			1.2
10SM02SS	No		80	J	10SM02SS	No		3620		10SM02SS	No		212	J	10SM02SS	No				10SM02SS	No			1
10SM03SS	No	10SM41SS	90	J	10SM03SS	No	10SM41SS	2290		10SM03SS	No	10SM41SS	193	J	10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS		0.9
10SM04SS	No		20	J	10SM04SS	No		1470		10SM04SS	No		339	J	10SM04SS	No				10SM04SS	No			0.8
10SM05SS	No		140	J	10SM05SS	No		5120		10SM05SS	No		306	J	10SM05SS	No				10SM05SS	No			0.9

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Antimony (mg/kg)			Arsenic (mg/kg)			Barium (mg/kg)			Beryllium (mg/kg)					
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM06SS	No		30	J	10SM06SS	No		890		10SM06SS	No		317	J
10SM07SS	No		2.3	UJ	10SM07SS	No		8510		10SM07SS	No		332	J
10SM08SS	No		10	J	10SM08SS	No		230		10SM08SS	No		241	J
10SM09SS	No		1.1	UJ	10SM09SS	No		190		10SM09SS	No		287	J
10SM10SS	No		0.45	UJ	10SM10SS	No		12		10SM10SS	No		174	
10SM11SS	No		0.49	UJ	10SM11SS	No		11		10SM11SS	No		97	
10SM12SS	No	10SM40SS			10SM12SS	No	10SM40SS	90		10SM12SS	No	10SM40SS	176	
10SM13SS	No		40	J	10SM13SS	No		670		10SM13SS	No		215	
10SM14SS	No		0.48	UJ	10SM14SS	No		10		10SM14SS	No		165	
10SM15SS	No		0.48	UJ	10SM15SS	No		21		10SM15SS	No		165	
10SM16SS	No		1.2	UJ	10SM16SS	No		350		10SM16SS	No		248	
10SM17SS	No		20	J	10SM17SS	No		361		10SM17SS	No		177	
10SM18SS	No		1.2	UJ	10SM18SS	No		230		10SM18SS	No		253	
10SM19SS	No		20	J	10SM19SS	No		670		10SM19SS	No		148	
10SM20SS	No		0.48	UJ	10SM20SS	No		9		10SM20SS	No		121	
10SM21SS	No		0.47	UJ	10SM21SS	No		39		10SM21SS	No		220	
10SM22SS	No		0.49	UJ	10SM22SS	No		17		10SM22SS	No		147	
10SM23SS	No		508	J	10SM23SS	No		223		10SM23SS	No		163	
10SM24SS	No		1.2	UJ	10SM24SS	No		0.9	U	10SM24SS	No		149	
10SM25SS	No		1.1	UJ	10SM25SS	No		40		10SM25SS	No		103	
10SM26SS	No		0.49	UJ	10SM26SS	No		13		10SM26SS	No		132	
10SM27SS	No		1.2	UJ	10SM27SS	No		20		10SM27SS	No		180	
10SM28SS	No		109	J	10SM28SS	No		177		10SM28SS	No		145	
10SM29SS	No		0.5	UJ	10SM29SS	No		11		10SM29SS	No		136	
10SM30SS	No		0.54	UJ	10SM30SS	No		46		10SM30SS	No		213	
10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS		
10SM41SS	No	10SM03SS			10SM41SS	No	10SM03SS			10SM41SS	No	10SM03SS		
11MP70SS	No		4.6		11MP70SS	No		33.9	J	11MP70SS	No		144	
11MP71SS	No		0.708	J	11MP71SS	No		10.8	J	11MP71SS	No		99.1	J

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 23300 J
 Min. detected concentration 0.45 J
 Number of detects 105
 Freq. of Detection 111/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 9880
 Min. detected concentration 0.9
 Number of detects 126
 Freq. of Detection 134/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 1710
 Min. detected concentration 76.2
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 1.3
 Min. detected concentration 0.21
 Number of detects 125
 Freq. of Detection 132/135

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Cadmium (mg/kg)				Chromium (mg/kg)				Copper (mg/kg)				Lead (mg/kg)			
sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.	sample-num	Bkgd Samp?	Duplicate	Result Qual.
10DS01SS	No		0.055 U	10DS01SS	No		20	10DS01SS	No		57.4	10DS01SS	No		12
10DS02SS	No		0.058 U	10DS02SS	No		21	10DS02SS	No		37.5	10DS02SS	No		9
10DS03SS	No		0.5	10DS03SS	No		18.9	10DS03SS	No		49.3	10DS03SS	No		10
10MP01SS	No		0.063 U	10MP01SS	No		24	10MP01SS	No		32.3	10MP01SS	No		9
10MP02SS	No	10MP81SS		10MP02SS	No	10MP81SS	8	10MP02SS	No	10MP81SS	118	10MP02SS	No	10MP81SS	20
10MP030405SS	No		0.057 U	10MP030405SS	No		39	10MP030405SS	No		81.6	10MP030405SS	No		28
10MP03SS	No		0.055 U	10MP03SS	No		46	10MP03SS	No		75	10MP03SS	No		38
10MP04SS	No		0.055 U	10MP04SS	No		71	10MP04SS	No		73.8	10MP04SS	No		24
10MP05SS	No		0.052 U	10MP05SS	No		45	10MP05SS	No		72.9	10MP05SS	No		24
10MP06070809SS	No		0.057 U	10MP06070809SS	No		34	10MP06070809SS	No		81.3	10MP06070809SS	No		22
10MP06SS	No		0.055 U	10MP06SS	No		29	10MP06SS	No		77.2	10MP06SS	No		33
10MP07SS	No		0.11 U	10MP07SS	No		32	10MP07SS	No		77	10MP07SS	No		10
10MP08SS	No		0.055 U	10MP08SS	No		24	10MP08SS	No		79.5	10MP08SS	No		29
10MP09SS	No		0.056 U	10MP09SS	No		33	10MP09SS	No		70	10MP09SS	No		29
10MP10SS	No		0.054 U	10MP10SS	No		23	10MP10SS	No		83.5	10MP10SS	No		30
10MP11SS	No		0.052 U	10MP11SS	No		43	10MP11SS	No		86.7	10MP11SS	No		19
10MP12SS	No		0.11 U	10MP12SS	No		35	10MP12SS	No		90	10MP12SS	No		1 U
10MP13SS	No		0.11 U	10MP13SS	No		41	10MP13SS	No		77	10MP13SS	No		1 U
10MP14SS	No		0.055 U	10MP14SS	No		24	10MP14SS	No		72.3	10MP14SS	No		24
10MP15SS	No		0.12 U	10MP15SS	No		30	10MP15SS	No		87	10MP15SS	No		20
10MP16SS	No	10MP89SS		10MP16SS	No	10MP89SS	40	10MP16SS	No	10MP89SS		10MP16SS	No	10MP89SS	16
10MP17SS	No	10MP82SS	0.052 U	10MP17SS	No	10MP82SS	51	10MP17SS	No	10MP82SS	81.9	10MP17SS	No	10MP82SS	
10MP18SS	No		0.054 U	10MP18SS	No		27	10MP18SS	No		72.9	10MP18SS	No		16
10MP19SS	No		0.06 U	10MP19SS	No		23	10MP19SS	No		32.4	10MP19SS	No		9
10MP20SS	No		1.1	10MP20SS	No		25	10MP20SS	No		89.7	10MP20SS	No		40
10MP21SS	No		0.8	10MP21SS	No		32	10MP21SS	No		96.9	10MP21SS	No		24
10MP22SS	No		0.054 U	10MP22SS	No		25	10MP22SS	No		87.9	10MP22SS	No		28
10MP23SS	No		0.1 U	10MP23SS	No		30	10MP23SS	No		117	10MP23SS	No		10
10MP24SS	No		1	10MP24SS	No		26	10MP24SS	No		82.3	10MP24SS	No		30
10MP25SS	No		0.11 U	10MP25SS	No		41	10MP25SS	No		95	10MP25SS	No		80
10MP26SS	No		0.11 U	10MP26SS	No		49	10MP26SS	No		97	10MP26SS	No		1 U
10MP27SS	No		0.11 U	10MP27SS	No		37	10MP27SS	No		139	10MP27SS	No		220
10MP28SS	No		0.052 U	10MP28SS	No		33	10MP28SS	No		77	10MP28SS	No		43
10MP29SS	No		0.21 U	10MP29SS	No		41	10MP29SS	No		94	10MP29SS	No		1.9 U
10MP30SS	No		0.057 U	10MP30SS	No		22	10MP30SS	No		63.7	10MP30SS	No		57
10MP31SS	No		0.3	10MP31SS	No		21.5	10MP31SS	No		17.9	10MP31SS	No		7
10MP32SS	No		0.12 U	10MP32SS	No		19	10MP32SS	No		71	10MP32SS	No		180
10MP33SS	No		0.032 U	10MP33SS	No		18.7	10MP33SS	No		20.2	10MP33SS	No		8
10MP34SS	No		0.11 U	10MP34SS	No		10	10MP34SS	No		73	10MP34SS	No		160
10MP35SS	No		0.059 U	10MP35SS	No		37	10MP35SS	No		46.2	10MP35SS	No		43
10MP36SS	No	10MP84SS		10MP36SS	No	10MP84SS	18	10MP36SS	No	10MP84SS		10MP36SS	No	10MP84SS	198
10MP37SS	No		0.7	10MP37SS	No		24	10MP37SS	No		35.4	10MP37SS	No		9
10MP38SS	No		0.023 U	10MP38SS	No		22.9	10MP38SS	No		44.4	10MP38SS	No		17
10MP39SS	No		0.056 U	10MP39SS	No		34	10MP39SS	No		40.5	10MP39SS	No		12
10MP40SS	No		0.2	10MP40SS	No		25.4	10MP40SS	No		38.2	10MP40SS	No		9
10MP41SS	No		0.022 U	10MP41SS	No		18.9	10MP41SS	No		24.5	10MP41SS	No		6
10MP424344SS	No		0.054 U	10MP424344SS	No		20	10MP424344SS	No		80.1	10MP424344SS	No		22
10MP42SS	No		0.053 U	10MP42SS	No		20	10MP42SS	No		71.4	10MP42SS	No		22
10MP43SS	No		0.052 U	10MP43SS	No		21	10MP43SS	No		73.3	10MP43SS	No		24
10MP44SS	No		0.056 U	10MP44SS	No		19	10MP44SS	No		80.8	10MP44SS	No		23
10MP45SS	No		0.053 U	10MP45SS	No		19	10MP45SS	No		74.4	10MP45SS	No		21
10MP46SS	No		0.11 U	10MP46SS	No		39	10MP46SS	No		91	10MP46SS	No		1 U
10MP47SS	No		0.053 U	10MP47SS	No		20	10MP47SS	No		78.6	10MP47SS	No		18

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Cadmium (mg/kg)			Chromium (mg/kg)			Copper (mg/kg)			Lead (mg/kg)					
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10MP48SS	No		0.051	U	10MP48SS	No		31		10MP48SS	No		73	
10MP49SS	No		0.1	U	10MP49SS	No		42		10MP49SS	No		78	
10MP5051525354SS	No		0.1	U	10MP5051525354SS	No		28		10MP5051525354SS	No		79	
10MP50SS	No		0.024	U	10MP50SS	No		20.1		10MP50SS	No		26.8	
10MP51SS	No		0.22	U	10MP51SS	No		41		10MP51SS	No		109	
10MP52SS	No		0.21	U	10MP52SS	No		40		10MP52SS	No		93	
10MP53SS	No		0.053	U	10MP53SS	No		24		10MP53SS	No		68.6	
10MP54SS	No		0.054	U	10MP54SS	No		18		10MP54SS	No		55.9	
10MP55565758SS	No		0.023	U	10MP55565758SS	No		26.9		10MP55565758SS	No		33.2	
10MP55SS	No		0.058	U	10MP55SS	No		31		10MP55SS	No		45.4	
10MP56SS	No		0.021	U	10MP56SS	No		17		10MP56SS	No		20.8	
10MP57SS	No		0.055	U	10MP57SS	No		22		10MP57SS	No		51.5	
10MP58SS	No		0.023	U	10MP58SS	No		24.3		10MP58SS	No		38.5	
10MP59SS	No	10MP86SS	0.051	U	10MP59SS	No	10MP86SS			10MP59SS	No	10MP86SS	66.8	
10MP60SS	No		0.052	U	10MP60SS	No		20		10MP60SS	No		73.7	
10MP61SS	No		0.023	U	10MP61SS	No		23.4		10MP61SS	No		40.8	
10MP62SS	No		0.056	U	10MP62SS	No		26		10MP62SS	No		59.7	
10MP63SS	No		0.055	U	10MP63SS	No		28		10MP63SS	No		55.8	
10MP64SS	No		0.055	U	10MP64SS	No		33		10MP64SS	No		52.8	
10MP65SS	No		0.023	U	10MP65SS	No		25.1		10MP65SS	No		35.4	
10MP66SS	No		0.05	U	10MP66SS	No		31		10MP66SS	No		61.2	
10MP67SS	No		0.11	U	10MP67SS	No		36		10MP67SS	No		79	
10MP68SS	No		0.024	U	10MP68SS	No		20.8		10MP68SS	No		30.1	
10MP80SS	No		0.11	U	10MP80SS	No		35		10MP80SS	No		76	
10MP81SS	No	10MP02SS	0.051	U	10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS		
10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS		
10MP83SS	No		1.3		10MP83SS	No		27		10MP83SS	No		84.2	
10MP84SS	No	10MP36SS	0.057	U	10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS	65.8	
10MP85SS	No		0.052	U	10MP85SS	No		34		10MP85SS	No		61.4	
10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS		
10MP87SS	No		0.8		10MP87SS	No		13		10MP87SS	No		96.5	
10MP88SS	No		0.1	U	10MP88SS	No		25		10MP88SS	No		89	
10MP89SS	No	10MP16SS	0.051	U	10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS	54.2	
10OP01SS	No		0.053	U	10OP01SS	No		101		10OP01SS	No		45	
10RD01SS	No		0.6		10RD01SS	No		31.1		10RD01SS	No		28.2	
10RD02SS	No		0.056	U	10RD02SS	No		26		10RD02SS	No		40.3	
10RD03SS	No		0.3		10RD03SS	No		26		10RD03SS	No		29.5	
10RD04SS	No		0.026	U	10RD04SS	No		29.6		10RD04SS	No		38.1	
10RD05SS	No		0.4		10RD05SS	No		22.8		10RD05SS	No		22.2	
10RD06SS	No		0.026	U	10RD06SS	No		25.7		10RD06SS	No		35.7	
10RD07SS	No		0.3		10RD07SS	No		21.5		10RD07SS	No		32.3	
10RD08SS	No	10RD30SS	0.6		10RD08SS	No	10RD30SS			10RD08SS	No	10RD30SS		
10RD09SS	No		0.07	U	10RD09SS	No		28		10RD09SS	No		23.4	
10RD20SS	No		0.022	U	10RD20SS	No		24		10RD20SS	No		81.8	
10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS	36.8	
10RS01SS	No		0.6		10RS01SS	No		30.5		10RS01SS	No		28	
10RS02SS	No		0.6		10RS02SS	No		29.4		10RS02SS	No		26.9	
10RS03SS	No		0.4		10RS03SS	No		20.6		10RS03SS	No		31.4	
10SM01SS	No		0.053	U	10SM01SS	No		16		10SM01SS	No		89	
10SM02SS	No		0.056	U	10SM02SS	No		17		10SM02SS	No		60	
10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS	66.5	
10SM04SS	No		0.056	U	10SM04SS	No		23		10SM04SS	No		56.5	
10SM05SS	No		0.055	U	10SM05SS	No		19		10SM05SS	No		87.1	

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Cadmium (mg/kg)				Chromium (mg/kg)				Copper (mg/kg)				Lead (mg/kg)							
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM06SS	No		0.8		10SM06SS	No		11		10SM06SS	No		79.3		10SM06SS	No		32	
10SM07SS	No		0.11	U	10SM07SS	No		21		10SM07SS	No		44		10SM07SS	No		10	
10SM08SS	No		0.9		10SM08SS	No		15		10SM08SS	No		100		10SM08SS	No		22	
10SM09SS	No		1		10SM09SS	No		14		10SM09SS	No		72.3		10SM09SS	No		17	
10SM10SS	No		0.3		10SM10SS	No		25.6		10SM10SS	No		24.7		10SM10SS	No		6	
10SM11SS	No		0.4		10SM11SS	No		26.9		10SM11SS	No		17.8		10SM11SS	No		8	
10SM12SS	No	10SM40SS			10SM12SS	No	10SM40SS	27		10SM12SS	No	10SM40SS	34.2		10SM12SS	No	10SM40SS	10	
10SM13SS	No		0.057	U	10SM13SS	No		21		10SM13SS	No		56.1		10SM13SS	No		14	
10SM14SS	No		0.3		10SM14SS	No		26.1		10SM14SS	No		23.5		10SM14SS	No		7	
10SM15SS	No		0.4		10SM15SS	No		24.6		10SM15SS	No		29.2		10SM15SS	No		8	
10SM16SS	No		0.058	U	10SM16SS	No		21		10SM16SS	No		53.4		10SM16SS	No		12	
10SM17SS	No		0.4		10SM17SS	No		23.8		10SM17SS	No		37.9		10SM17SS	No		9	
10SM18SS	No		0.6		10SM18SS	No		12		10SM18SS	No		71.9		10SM18SS	No		16	
10SM19SS	No		0.054	U	10SM19SS	No		17		10SM19SS	No		57.3		10SM19SS	No		12	
10SM20SS	No		0.3		10SM20SS	No		21		10SM20SS	No		18.7		10SM20SS	No		6	
10SM21SS	No		0.3		10SM21SS	No		27.2		10SM21SS	No		28.2		10SM21SS	No		9	
10SM22SS	No		0.4		10SM22SS	No		27		10SM22SS	No		25.3		10SM22SS	No		7	
10SM23SS	No		0.023	U	10SM23SS	No		22.5		10SM23SS	No		25		10SM23SS	No		6	
10SM24SS	No		0.7		10SM24SS	No		24		10SM24SS	No		53.1		10SM24SS	No		12	
10SM25SS	No		0.6		10SM25SS	No		22		10SM25SS	No		46.4		10SM25SS	No		11	
10SM26SS	No		0.4		10SM26SS	No		20.2		10SM26SS	No		28.2		10SM26SS	No		8	
10SM27SS	No		0.8		10SM27SS	No		21		10SM27SS	No		40.5		10SM27SS	No		11	
10SM28SS	No		0.023	U	10SM28SS	No		22.8		10SM28SS	No		23.5		10SM28SS	No		6	
10SM29SS	No		0.2		10SM29SS	No		23.8		10SM29SS	No		19.7		10SM29SS	No		6	
10SM30SS	No		0.3		10SM30SS	No		30.2		10SM30SS	No		31.7		10SM30SS	No		11	
10SM40SS	No	10SM12SS	0.4		10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS		
10SM41SS	No	10SM03SS	0.054	U	10SM41SS	No	10SM03SS			10SM41SS	No	10SM03SS			10SM41SS	No	10SM03SS		
11MP70SS	No		0.18		11MP70SS	No		18.7		11MP70SS	No		17		11MP70SS	No		6.96	
11MP71SS	No		0.385	J	11MP71SS	No		20.3	J	11MP71SS	No		32.6	J	11MP71SS	No		8.91	

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 1.1
 Min. detected concentration 0.032
 Number of detects 36
 Freq. of Detection 38/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 101
 Min. detected concentration 8
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 139
 Min. detected concentration 17
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 3090
 Min. detected concentration 0.9
 Number of detects 120
 Freq. of Detection 126/135

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Manganese (mg/kg)					Mercury (mg/kg)					Nickel (mg/kg)					Selenium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10DS01SS	No		759		10DS01SS	No		71		10DS01SS	No		54		10DS01SS	No		1.6	U
10DS02SS	No		598		10DS02SS	No		22		10DS02SS	No		42		10DS02SS	No		1.7	U
10DS03SS	No		833		10DS03SS	No		16		10DS03SS	No		39		10DS03SS	No		0.71	U
10MP01SS	No		302		10MP01SS	No		2.6		10MP01SS	No		30		10MP01SS	No		1.9	U
10MP02SS	No	10MP81SS	1190		10MP02SS	No	10MP81SS			10MP02SS	No	10MP81SS	97		10MP02SS	No	10MP81SS		
10MP030405SS	No		737		10MP030405SS	No		680		10MP030405SS	No		51		10MP030405SS	No		1.7	U
10MP03SS	No		527		10MP03SS	No		710		10MP03SS	No		55		10MP03SS	No		1.6	U
10MP04SS	No		502		10MP04SS	No		860		10MP04SS	No		53		10MP04SS	No		1.6	U
10MP05SS	No		523		10MP05SS	No		900		10MP05SS	No		45		10MP05SS	No		1.5	U
10MP06070809SS	No		616		10MP06070809SS	No		750		10MP06070809SS	No		62		10MP06070809SS	No		1.7	U
10MP06SS	No		596		10MP06SS	No		750		10MP06SS	No		45		10MP06SS	No		1.6	U
10MP07SS	No		692		10MP07SS	No		790	J	10MP07SS	No		55		10MP07SS	No		3.2	U
10MP08SS	No		688		10MP08SS	No		295		10MP08SS	No		65		10MP08SS	No		1.6	U
10MP09SS	No		650		10MP09SS	No		560		10MP09SS	No		58		10MP09SS	No		1.6	U
10MP10SS	No		813		10MP10SS	No		172		10MP10SS	No		64		10MP10SS	No		1.6	U
10MP11SS	No		785		10MP11SS	No		660		10MP11SS	No		69		10MP11SS	No		1.5	U
10MP12SS	No		801		10MP12SS	No		304		10MP12SS	No		64		10MP12SS	No		3.2	U
10MP13SS	No		676		10MP13SS	No		690		10MP13SS	No		64		10MP13SS	No		3.3	U
10MP14SS	No		874		10MP14SS	No		162		10MP14SS	No		58		10MP14SS	No		1.6	U
10MP15SS	No		694		10MP15SS	No		217		10MP15SS	No		58		10MP15SS	No		3.5	U
10MP16SS	No	10MP89SS			10MP16SS	No	10MP89SS	290		10MP16SS	No	10MP89SS	56		10MP16SS	No	10MP89SS	1.5	U
10MP17SS	No	10MP82SS			10MP17SS	No	10MP82SS			10MP17SS	No	10MP82SS			10MP17SS	No	10MP82SS	1.5	U
10MP18SS	No		965		10MP18SS	No		136		10MP18SS	No		54		10MP18SS	No		1.6	U
10MP19SS	No		537		10MP19SS	No		38		10MP19SS	No		40		10MP19SS	No		1.8	U
10MP20SS	No		1040		10MP20SS	No		62		10MP20SS	No		66		10MP20SS	No		1.6	U
10MP21SS	No		1390		10MP21SS	No		63		10MP21SS	No		80		10MP21SS	No		1.6	U
10MP22SS	No		991		10MP22SS	No		106		10MP22SS	No		79		10MP22SS	No		1.6	U
10MP23SS	No		892		10MP23SS	No		261		10MP23SS	No		60		10MP23SS	No		3	U
10MP24SS	No		768		10MP24SS	No		440		10MP24SS	No		77		10MP24SS	No		1.6	U
10MP25SS	No		604		10MP25SS	No		1340		10MP25SS	No		56		10MP25SS	No		3.2	U
10MP26SS	No		829		10MP26SS	No		1620		10MP26SS	No		62		10MP26SS	No		3.1	U
10MP27SS	No		708		10MP27SS	No		250		10MP27SS	No		61		10MP27SS	No		3.2	U
10MP28SS	No		617		10MP28SS	No		820		10MP28SS	No		53		10MP28SS	No		1.5	U
10MP29SS	No		739		10MP29SS	No		440		10MP29SS	No		60		10MP29SS	No		6.3	U
10MP30SS	No		539		10MP30SS	No		400		10MP30SS	No		52		10MP30SS	No		1.7	U
10MP31SS	No		258		10MP31SS	No		0.28		10MP31SS	No		20		10MP31SS	No		0.76	U
10MP32SS	No		708		10MP32SS	No		127		10MP32SS	No		48		10MP32SS	No		3.5	U
10MP33SS	No		158		10MP33SS	No		1.46		10MP33SS	No		18		10MP33SS	No		0.93	U
10MP34SS	No		814		10MP34SS	No		79		10MP34SS	No		52		10MP34SS	No		3.2	U
10MP35SS	No		764		10MP35SS	No		183		10MP35SS	No		61		10MP35SS	No		1.7	U
10MP36SS	No	10MP84SS	1090		10MP36SS	No	10MP84SS			10MP36SS	No	10MP84SS			10MP36SS	No	10MP84SS	1.7	U
10MP37SS	No		480		10MP37SS	No		3.6		10MP37SS	No		44		10MP37SS	No		1.7	U
10MP38SS	No		540		10MP38SS	No		154		10MP38SS	No		49		10MP38SS	No		0.67	U
10MP39SS	No		486		10MP39SS	No		42		10MP39SS	No		49		10MP39SS	No		1.6	U
10MP40SS	No		310		10MP40SS	No		15		10MP40SS	No		39		10MP40SS	No		0.7	U
10MP41SS	No		313		10MP41SS	No		8		10MP41SS	No		31		10MP41SS	No		0.65	U
10MP424344SS	No		702		10MP424344SS	No		136		10MP424344SS	No		64		10MP424344SS	No		1.6	U
10MP42SS	No		759		10MP42SS	No		124		10MP42SS	No		59		10MP42SS	No		1.6	U
10MP43SS	No		789		10MP43SS	No		149		10MP43SS	No		60		10MP43SS	No		1.5	U
10MP44SS	No		656		10MP44SS	No		86		10MP44SS	No		58		10MP44SS	No		1.7	U
10MP45SS	No		877		10MP45SS	No		87		10MP45SS	No		61		10MP45SS	No		1.6	U
10MP46SS	No		758		10MP46SS	No		194		10MP46SS	No		69		10MP46SS	No		3.2	U
10MP47SS	No		672		10MP47SS	No		118		10MP47SS	No		72		10MP47SS	No		1.6	U

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Manganese (mg/kg)					Mercury (mg/kg)					Nickel (mg/kg)					Selenium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10MP48SS	No		737		10MP48SS	No		1260		10MP48SS	No		48		10MP48SS	No		1.5	U
10MP49SS	No		707		10MP49SS	No		176		10MP49SS	No		60		10MP49SS	No		3.1	U
10MP5051525354SS	No		605		10MP5051525354SS	No		144		10MP5051525354SS	No		54		10MP5051525354SS	No		3.1	U
10MP50SS	No		267		10MP50SS	No		318		10MP50SS	No		24		10MP50SS	No		0.7	U
10MP51SS	No		644		10MP51SS	No		119		10MP51SS	No		60		10MP51SS	No		6.4	U
10MP52SS	No		562		10MP52SS	No		183		10MP52SS	No		60		10MP52SS	No		6.1	U
10MP53SS	No		501		10MP53SS	No		183		10MP53SS	No		48		10MP53SS	No		1.6	U
10MP54SS	No		1110		10MP54SS	No		24.4		10MP54SS	No		48		10MP54SS	No		1.6	U
10MP55565758SS	No		644		10MP55565758SS	No		114		10MP55565758SS	No		38		10MP55565758SS	No		0.67	U
10MP55SS	No		573		10MP55SS	No		124		10MP55SS	No		43 J		10MP55SS	No		1.7	U
10MP56SS	No		309		10MP56SS	No		19.1		10MP56SS	No		24 J		10MP56SS	No		0.61	U
10MP57SS	No		559		10MP57SS	No		150		10MP57SS	No		49 J		10MP57SS	No		1.6	U
10MP58SS	No		415		10MP58SS	No		114		10MP58SS	No		44 J		10MP58SS	No		0.68	U
10MP59SS	No	10MP86SS	991		10MP59SS	No	10MP86SS	115		10MP59SS	No	10MP86SS			10MP59SS	No	10MP86SS	1.5	U
10MP60SS	No		572		10MP60SS	No		144		10MP60SS	No		57 J		10MP60SS	No		1.5	U
10MP61SS	No		477		10MP61SS	No		68		10MP61SS	No		48 J		10MP61SS	No		0.68	U
10MP62SS	No		616		10MP62SS	No		165		10MP62SS	No		62 J		10MP62SS	No		1.6	U
10MP63SS	No		563		10MP63SS	No		150		10MP63SS	No		57 J		10MP63SS	No		1.6	U
10MP64SS	No		507		10MP64SS	No		172		10MP64SS	No		56 J		10MP64SS	No		1.6	U
10MP65SS	No		411		10MP65SS	No		54		10MP65SS	No		32		10MP65SS	No		0.68	U
10MP66SS	No		879		10MP66SS	No		145		10MP66SS	No		74		10MP66SS	No		1.5	U
10MP67SS	No		673		10MP67SS	No		730		10MP67SS	No		60 J		10MP67SS	No		3.2	U
10MP68SS	No		346		10MP68SS	No		109		10MP68SS	No		38 J		10MP68SS	No		0.7	U
10MP80SS	No		528		10MP80SS	No		780		10MP80SS	No		52 J		10MP80SS	No		3.3	U
10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS	94		10MP81SS	No	10MP02SS			10MP81SS	No	10MP02SS	1.5	U
10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS	479		10MP82SS	No	10MP17SS			10MP82SS	No	10MP17SS		
10MP83SS	No		711		10MP83SS	No		387		10MP83SS	No		75 J		10MP83SS	No		1.6	U
10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS	85		10MP84SS	No	10MP36SS			10MP84SS	No	10MP36SS		
10MP85SS	No		761		10MP85SS	No		129		10MP85SS	No		74 J		10MP85SS	No		1.5	U
10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS			10MP86SS	No	10MP59SS		
10MP87SS	No		1500		10MP87SS	No		67		10MP87SS	No		64 J		10MP87SS	No		1.6	U
10MP88SS	No		665		10MP88SS	No		590		10MP88SS	No		66		10MP88SS	No		3	U
10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS			10MP89SS	No	10MP16SS		
10OP01SS	No		711		10OP01SS	No		170		10OP01SS	No		66		10OP01SS	No		1.6	U
10RD01SS	No		635		10RD01SS	No		1.74		10RD01SS	No		33		10RD01SS	No		0.88	U
10RD02SS	No		622		10RD02SS	No		43		10RD02SS	No		43		10RD02SS	No		1.6	U
10RD03SS	No		542		10RD03SS	No		28		10RD03SS	No		35		10RD03SS	No		0.71	U
10RD04SS	No		545		10RD04SS	No		99		10RD04SS	No		46		10RD04SS	No		0.77	U
10RD05SS	No		221		10RD05SS	No		3.8		10RD05SS	No		25		10RD05SS	No		0.8	U
10RD06SS	No		356		10RD06SS	No		186		10RD06SS	No		35		10RD06SS	No		0.76	U
10RD07SS	No		312		10RD07SS	No		16		10RD07SS	No		32		10RD07SS	No		0.7	U
10RD08SS	No	10RD30SS			10RD08SS	No	10RD30SS	0.9		10RD08SS	No	10RD30SS			10RD08SS	No	10RD30SS	1.7	U
10RD09SS	No		936		10RD09SS	No		2		10RD09SS	No		33 J		10RD09SS	No		2.1	U
10RD20SS	No		434		10RD20SS	No		75		10RD20SS	No		38		10RD20SS	No		0.63	U
10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS			10RD30SS	No	10RD08SS		
10RS01SS	No		655		10RS01SS	No		1.25		10RS01SS	No		33		10RS01SS	No		0.88	U
10RS02SS	No		609		10RS02SS	No		1.15		10RS02SS	No		32		10RS02SS	No		0.78	U
10RS03SS	No		719		10RS03SS	No		3.57		10RS03SS	No		32		10RS03SS	No		0.77	U
10SM01SS	No		844		10SM01SS	No		29		10SM01SS	No		78		10SM01SS	No		1.6	U
10SM02SS	No		854		10SM02SS	No		44		10SM02SS	No		67		10SM02SS	No		1.7	U
10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS			10SM03SS	No	10SM41SS		
10SM04SS	No		1130		10SM04SS	No		31		10SM04SS	No		55		10SM04SS	No		1.6	U
10SM05SS	No		4230		10SM05SS	No		102		10SM05SS	No		86		10SM05SS	No		1.6	U

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Manganese (mg/kg)					Mercury (mg/kg)					Nickel (mg/kg)					Selenium (mg/kg)				
sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.	sample-num	Bkgd Samp?	Duplicate	Result	Qual.
10SM06SS	No		1430		10SM06SS	No		25		10SM06SS	No		78		10SM06SS	No		1.6	U
10SM07SS	No		362		10SM07SS	No		174		10SM07SS	No		31		10SM07SS	No		3.3	U
10SM08SS	No		780		10SM08SS	No		8		10SM08SS	No		61		10SM08SS	No		1.7	U
10SM09SS	No		1040		10SM09SS	No		9		10SM09SS	No		64		10SM09SS	No		1.6	U
10SM10SS	No		340		10SM10SS	No		0.15	J	10SM10SS	No		24		10SM10SS	No		0.65	U
10SM11SS	No		323		10SM11SS	No		0.17	J	10SM11SS	No		27		10SM11SS	No		0.71	U
10SM12SS	No	10SM40SS	529		10SM12SS	No	10SM40SS	5.4	J	10SM12SS	No	10SM40SS	32		10SM12SS	No	10SM40SS		
10SM13SS	No		1150		10SM13SS	No		23	J	10SM13SS	No		47		10SM13SS	No		1.7	U
10SM14SS	No		307		10SM14SS	No		0.14	J	10SM14SS	No		26		10SM14SS	No		0.68	U
10SM15SS	No		479		10SM15SS	No		0.62	J	10SM15SS	No		29		10SM15SS	No		0.69	U
10SM16SS	No		1050		10SM16SS	No		8.8	J	10SM16SS	No		52		10SM16SS	No		1.7	U
10SM17SS	No		526		10SM17SS	No		12	J	10SM17SS	No		37		10SM17SS	No		0.67	U
10SM18SS	No		1250		10SM18SS	No		11	J	10SM18SS	No		57		10SM18SS	No		1.7	U
10SM19SS	No		776		10SM19SS	No		14	J	10SM19SS	No		59		10SM19SS	No		1.6	U
10SM20SS	No		153		10SM20SS	No		0.11	J	10SM20SS	No		19		10SM20SS	No		0.7	U
10SM21SS	No		476		10SM21SS	No		2	J	10SM21SS	No		28		10SM21SS	No		0.68	U
10SM22SS	No		367		10SM22SS	No		0.05	J	10SM22SS	No		23		10SM22SS	No		0.7	U
10SM23SS	No		316		10SM23SS	No		8.2	J	10SM23SS	No		25		10SM23SS	No		0.67	U
10SM24SS	No		870		10SM24SS	No		0.26	J	10SM24SS	No		46		10SM24SS	No		1.7	U
10SM25SS	No		1030		10SM25SS	No		0.9	J	10SM25SS	No		55		10SM25SS	No		1.6	U
10SM26SS	No		517		10SM26SS	No		0.64	J	10SM26SS	No		26		10SM26SS	No		0.7	U
10SM27SS	No		1090		10SM27SS	No		1.9	J	10SM27SS	No		35		10SM27SS	No		1.7	U
10SM28SS	No		435		10SM28SS	No		17	J	10SM28SS	No		26		10SM28SS	No		0.68	U
10SM29SS	No		319		10SM29SS	No		0.17	J	10SM29SS	No		22		10SM29SS	No		0.72	U
10SM30SS	No		481		10SM30SS	No		1.9	J	10SM30SS	No		33		10SM30SS	No		0.78	U
10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS			10SM40SS	No	10SM12SS	0.68	U
10SM41SS	No	10SM03SS	817		10SM41SS	No	10SM03SS	24	J	10SM41SS	No	10SM03SS			10SM41SS	No	10SM03SS	1.6	U
11MP70SS	No		738		11MP70SS	No		0.807	J	11MP70SS	No		29.3		11MP70SS	No		0.42	
11MP71SS	No		703		11MP71SS	No		0.428		11MP71SS	No		39.9	J	11MP71SS	No		0.24	

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 4230
 Min. detected concentration 153
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 1620
 Min. detected concentration 0.05
 Number of detects 126
 Freq. of Detection 134/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 97
 Min. detected concentration 18
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 0.42
 Min. detected concentration 0.24
 Number of detects 2
 Freq. of Detection 2/135

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Thallium (mg/kg)			Vanadium (mg/kg)				Zinc (mg/kg)			
sample-num	Bkgd Samp? Duplicate	Result Qual.	sample-num	Bkgd Samp? Duplicate	Result Qual.	sample-num	Bkgd Samp? Duplicate	Result Qual.		
10DS01SS	No	0.7 U	10DS01SS	No	33.2	10DS01SS	No	116		
10DS02SS	No	0.7 U	10DS02SS	No	31	10DS02SS	No	98		
10DS03SS	No	0.3 U	10DS03SS	No	32.2	10DS03SS	No	93		
10MP01SS	No	0.8 U	10MP01SS	No	47	10MP01SS	No	71		
10MP02SS	No		10MP02SS	No	20	10MP02SS	No	159		
10MP030405SS	No	0.7 U	10MP030405SS	No	36.2	10MP030405SS	No	115		
10MP03SS	No	0.7 U	10MP03SS	No	33.9	10MP03SS	No	115		
10MP04SS	No	0.7 U	10MP04SS	No	33.5	10MP04SS	No	110		
10MP05SS	No	0.7 U	10MP05SS	No	34.7	10MP05SS	No	106		
10MP06070809SS	No	0.7 U	10MP06070809SS	No	33.5	10MP06070809SS	No	120		
10MP06SS	No	0.7 U	10MP06SS	No	29	10MP06SS	No	95		
10MP07SS	No	1.4 U	10MP07SS	No	29	10MP07SS	No	110		
10MP08SS	No	0.7 U	10MP08SS	No	31.4	10MP08SS	No	135		
10MP09SS	No	0.7 U	10MP09SS	No	30.3	10MP09SS	No	107		
10MP10SS	No	0.7 U	10MP10SS	No	39	10MP10SS	No	136		
10MP11SS	No	0.6 U	10MP11SS	No	34.5	10MP11SS	No	126		
10MP12SS	No	1.4 U	10MP12SS	No	32	10MP12SS	No	122		
10MP13SS	No	1.4 U	10MP13SS	No	31	10MP13SS	No	115		
10MP14SS	No	0.7 U	10MP14SS	No	36.4	10MP14SS	No	118		
10MP15SS	No	1.5 U	10MP15SS	No	32	10MP15SS	No	125		
10MP16SS	No		10MP16SS	No	27.6	10MP16SS	No	93		
10MP17SS	No	0.7 U	10MP17SS	No	34.8	10MP17SS	No			
10MP18SS	No	0.7 U	10MP18SS	No	35.8	10MP18SS	No	112		
10MP19SS	No	0.7 U	10MP19SS	No	45.4	10MP19SS	No	83		
10MP20SS	No	0.7 U	10MP20SS	No	39.8	10MP20SS	No	386		
10MP21SS	No	0.7 U	10MP21SS	No	49.5	10MP21SS	No	209		
10MP22SS	No	0.7 U	10MP22SS	No	31.6	10MP22SS	No	160		
10MP23SS	No	1.3 U	10MP23SS	No	33	10MP23SS	No	117		
10MP24SS	No	0.7 U	10MP24SS	No	27.3	10MP24SS	No	152		
10MP25SS	No	1.3 U	10MP25SS	No	31	10MP25SS	No	113		
10MP26SS	No	1.3 U	10MP26SS	No	34	10MP26SS	No	122		
10MP27SS	No	1.4 U	10MP27SS	No	32	10MP27SS	No	108		
10MP28SS	No	0.7 U	10MP28SS	No	31.1	10MP28SS	No	108		
10MP29SS	No	2.7 U	10MP29SS	No	35	10MP29SS	No	120		
10MP30SS	No	0.7 U	10MP30SS	No	29.4	10MP30SS	No	94		
10MP31SS	No	0.32 U	10MP31SS	No	47.5	10MP31SS	No	51		
10MP32SS	No	1.5 U	10MP32SS	No	21	10MP32SS	No	112		
10MP33SS	No	0.4 U	10MP33SS	No	32.2	10MP33SS	No	38		
10MP34SS	No	1.4 U	10MP34SS	No	20	10MP34SS	No	109		
10MP35SS	No	0.7 U	10MP35SS	No	35.6	10MP35SS	No	90		
10MP36SS	No	0.7 U	10MP36SS	No	25.3	10MP36SS	No			
10MP37SS	No	0.7 U	10MP37SS	No	41.1	10MP37SS	No	88		
10MP38SS	No	0.28 U	10MP38SS	No	35.6	10MP38SS	No	90		
10MP39SS	No	0.7 U	10MP39SS	No	34.1	10MP39SS	No	84		
10MP40SS	No	0.3 U	10MP40SS	No	39.3	10MP40SS	No	94		
10MP41SS	No	0.28 U	10MP41SS	No	30.8	10MP41SS	No	60		
10MP424344SS	No	0.7 U	10MP424344SS	No	32.7	10MP424344SS	No	145		
10MP42SS	No	0.7 U	10MP42SS	No	30.9	10MP42SS	No	126		
10MP43SS	No	0.7 U	10MP43SS	No	31.2	10MP43SS	No	124		
10MP44SS	No	0.7 U	10MP44SS	No	35.5	10MP44SS	No	147		
10MP45SS	No	0.7 U	10MP45SS	No	37.3	10MP45SS	No	140		
10MP46SS	No	1.3 U	10MP46SS	No	34	10MP46SS	No	126		
10MP47SS	No	0.7 U	10MP47SS	No	31.9	10MP47SS	No	146		

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Thallium (mg/kg)			Vanadium (mg/kg)			Zinc (mg/kg)		
sample-num	Bkgd Samp? Duplicate	Result Qual.	sample-num	Bkgd Samp? Duplicate	Result Qual.	sample-num	Bkgd Samp? Duplicate	Result Qual.
10MP48SS	No	0.6 U	10MP48SS	No	32.2	10MP48SS	No	116
10MP49SS	No	1.3 U	10MP49SS	No	34	10MP49SS	No	128
SS	No	1.3 U	10MP5051525354SS	No	32	10MP5051525354SS	No	113
10MP50SS	No	0.29 U	10MP50SS	No	30.6	10MP50SS	No	108
10MP51SS	No	2.7 U	10MP51SS	No	28	10MP51SS	No	100
10MP52SS	No	2.6 U	10MP52SS	No	30	10MP52SS	No	120
10MP53SS	No	0.7 U	10MP53SS	No	29.8	10MP53SS	No	107
10MP54SS	No	0.7 U	10MP54SS	No	30.9	10MP54SS	No	103
10MP55565758SS	No	0.28 U	10MP55565758SS	No	27.3	10MP55565758SS	No	68
10MP55SS	No	0.7 U	10MP55SS	No	28.9	10MP55SS	No	93
10MP56SS	No	0.26 U	10MP56SS	No	24.7	10MP56SS	No	48
10MP57SS	No	0.7 U	10MP57SS	No	28	10MP57SS	No	97
10MP58SS	No	0.29 U	10MP58SS	No	28.4	10MP58SS	No	82
10MP59SS	No 10MP86SS	0.6 U	10MP59SS	No 10MP86SS	24.3	10MP59SS	No 10MP86SS	
10MP60SS	No	0.6 U	10MP60SS	No	29.6	10MP60SS	No	114
10MP61SS	No	0.29 U	10MP61SS	No	33.2	10MP61SS	No	89
10MP62SS	No	0.7 U	10MP62SS	No	31.4	10MP62SS	No	104
10MP63SS	No	0.7 U	10MP63SS	No	27.7	10MP63SS	No	98
10MP64SS	No	0.7 U	10MP64SS	No	28.6	10MP64SS	No	92
10MP65SS	No	0.29 U	10MP65SS	No	31.5	10MP65SS	No	73
10MP66SS	No	0.6 U	10MP66SS	No	32.4	10MP66SS	No	102
10MP67SS	No	1.4 U	10MP67SS	No	32	10MP67SS	No	100
10MP68SS	No	0.3 U	10MP68SS	No	30.9	10MP68SS	No	77
10MP80SS	No	1.4 U	10MP80SS	No	31	10MP80SS	No	109
10MP81SS	No 10MP02SS	0.6 U	10MP81SS	No 10MP02SS		10MP81SS	No 10MP02SS	
10MP82SS	No 10MP17SS		10MP82SS	No 10MP17SS		10MP82SS	No 10MP17SS	127
10MP83SS	No	0.7 U	10MP83SS	No	26.9	10MP83SS	No	146
10MP84SS	No 10MP36SS		10MP84SS	No 10MP36SS		10MP84SS	No 10MP36SS	111
10MP85SS	No	0.6 U	10MP85SS	No	29.7	10MP85SS	No	94
10MP86SS	No 10MP59SS		10MP86SS	No 10MP59SS		10MP86SS	No 10MP59SS	106
10MP87SS	No	0.7 U	10MP87SS	No	43	10MP87SS	No	177
10MP88SS	No	1.3 U	10MP88SS	No	36	10MP88SS	No	125 J
10MP89SS	No 10MP16SS	0.6 U	10MP89SS	No 10MP16SS		10MP89SS	No 10MP16SS	
10OP01SS	No	0.7 U	10OP01SS	No	37.5	10OP01SS	No	103
10RD01SS	No	0.37 U	10RD01SS	No	42.4	10RD01SS	No	93 J
10RD02SS	No	0.7 U	10RD02SS	No	30.3	10RD02SS	No	93 J
10RD03SS	No	0.3 U	10RD03SS	No	30.7	10RD03SS	No	83 J
10RD04SS	No	0.32 U	10RD04SS	No	34.9	10RD04SS	No	110 J
10RD05SS	No	0.34 U	10RD05SS	No	35.7	10RD05SS	No	76 J
10RD06SS	No	0.32 U	10RD06SS	No	29.7	10RD06SS	No	76 J
10RD07SS	No	0.3 U	10RD07SS	No	37.8	10RD07SS	No	69 J
10RD08SS	No 10RD30SS	0.7 U	10RD08SS	No 10RD30SS	42.5	10RD08SS	No 10RD30SS	
10RD09SS	No	0.9 U	10RD09SS	No	48	10RD09SS	No	73
10RD20SS	No	0.27 U	10RD20SS	No	28.8	10RD20SS	No	80
10RD30SS	No 10RD08SS		10RD30SS	No 10RD08SS		10RD30SS	No 10RD08SS	90
10RS01SS	No	0.37 U	10RS01SS	No	40.3	10RS01SS	No	103
10RS02SS	No	0.33 U	10RS02SS	No	39.6	10RS02SS	No	93
10RS03SS	No	0.32 U	10RS03SS	No	33.6	10RS03SS	No	72
10SM01SS	No	0.7 U	10SM01SS	No	23.4	10SM01SS	No	136
10SM02SS	No	0.7 U	10SM02SS	No	29.4	10SM02SS	No	122
10SM03SS	No 10SM41SS	0.7 U	10SM03SS	No 10SM41SS	32.1	10SM03SS	No 10SM41SS	120
10SM04SS	No	0.7 U	10SM04SS	No	36	10SM04SS	No	116
10SM05SS	No	0.7 U	10SM05SS	No	32.3	10SM05SS	No	159

Surface Soil Sample Metals Results for the Red Devil Mine Site with Field Duplicate Results Processed as Per Alaska DEC Guidance

Thallium (mg/kg)				Vanadium (mg/kg)				Zinc (mg/kg)			
sample-num	Bkgd Samp? Duplicate	Result	Qual.	sample-num	Bkgd Samp? Duplicate	Result	Qual.	sample-num	Bkgd Samp? Duplicate	Result	Qual.
10SM06SS	No	0.7	U	10SM06SS	No	25.3		10SM06SS	No	159	
10SM07SS	No	1.4	U	10SM07SS	No	25		10SM07SS	No	77	
10SM08SS	No	0.7	U	10SM08SS	No	33		10SM08SS	No	126	
10SM09SS	No	0.7	U	10SM09SS	No	28.6		10SM09SS	No	148	
10SM10SS	No	0.27	U	10SM10SS	No	42		10SM10SS	No	57	
10SM11SS	No	0.3	U	10SM11SS	No	44.3		10SM11SS	No	64	
10SM12SS	No			10SM12SS	No	43.6		10SM12SS	No	74	
10SM13SS	No	0.7	U	10SM13SS	No	36.4		10SM13SS	No	108	
10SM14SS	No	0.29	U	10SM14SS	No	42.4		10SM14SS	No	60	
10SM15SS	No	0.29	U	10SM15SS	No	41.4		10SM15SS	No	64	
10SM16SS	No	0.7	U	10SM16SS	No	39.5		10SM16SS	No	104	
10SM17SS	No	0.28	U	10SM17SS	No	37.9		10SM17SS	No	76	
10SM18SS	No	0.7	U	10SM18SS	No	23		10SM18SS	No	139	
10SM19SS	No	0.7	U	10SM19SS	No	30.6		10SM19SS	No	110	
10SM20SS	No	0.29	U	10SM20SS	No	35.8		10SM20SS	No	45	
10SM21SS	No	0.29	U	10SM21SS	No	46.8		10SM21SS	No	67	
10SM22SS	No	0.3	U	10SM22SS	No	47.9		10SM22SS	No	61	
10SM23SS	No	0.28	U	10SM23SS	No	35.5		10SM23SS	No	56	
10SM24SS	No	0.7	U	10SM24SS	No	41.6		10SM24SS	No	108	
10SM25SS	No	0.7	U	10SM25SS	No	43.7		10SM25SS	No	109	
10SM26SS	No	0.3	U	10SM26SS	No	37.3		10SM26SS	No	62	
10SM27SS	No	0.7	U	10SM27SS	No	37.8		10SM27SS	No	85	
10SM28SS	No	0.29	U	10SM28SS	No	36.4		10SM28SS	No	52	
10SM29SS	No	0.3	U	10SM29SS	No	40		10SM29SS	No	50	
10SM30SS	No	0.33	U	10SM30SS	No	51.9		10SM30SS	No	75	
10SM40SS	No	0.29	U	10SM40SS	No			10SM40SS	No		
10SM41SS	No			10SM41SS	No			10SM41SS	No		
11MP70SS	No	0.065		11MP70SS	No	30.9		11MP70SS	No	64.9	
11MP71SS	No	0.071		11MP71SS	No	35.4		11MP71SS	No	85.5	J

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 0.065
 Min. detected concentration 0.071
 Number of detects 2
 Freq. of Detection 2/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 51.9
 Min. detected concentration 20
 Number of detects 127
 Freq. of Detection 135/135

Results 127
 Field Dups 8
 Number of Original Samples 119
 Max. detected concentration 386
 Min. detected concentration 38
 Number of detects 127
 Freq. of Detection 135/135

Antimony	D_Antimony	Arsenic	D_Arsenic	Barium	D_Barium	Beryllium	D_Beryllium	Cadmium	D_Cadmium	Chromium	D_Chromium	Copper	D_Copper	Lead	D_Lead	Manganese	D_Manganese	Mercury	D_Mercury	Nickel	D_Nickel	Selenium	D_Selenium	Thallium	D_Thallium	Vanadium	D_Vanadium	Zinc	D_Zinc	sample-num
40	1	1010	1	171	1	0.8	1	0.055	0	20	1	57.4	1	12	1	759	1	71	1	54	1	1.6	0	0.7	0	33.2	1	116	1	10DS01SS
40	1	550	1	174	1	0.6	1	0.058	0	21	1	37.5	1	9	1	598	1	22	1	42	1	1.7	0	0.7	0	31	1	98	1	10DS02SS
21	1	355	1	166	1	0.6	1	0.5	1	18.9	1	49.3	1	10	1	833	1	16	1	39	1	0.71	0	0.3	0	32.2	1	93	1	10DS03SS
20	1	100	1	84	1	0.4	1	0.063	0	24	1	32.3	1	9	1	302	1	2.6	1	30	1	1.9	0	0.8	0	47	1	71	1	10MP01SS
		7310	1	134	1	1.3	1			8	1	118	1	20	1	1190	1			97	1				0	20	1	159	1	10MP02SS
5500	1	5580	1	639	1	0.9	1	0.057	0	39	1	81.6	1	28	1	737	1	680	1	51	1	1.7	0	0.7	0	36.2	1	115	1	10MP030405SS
4720	1	5200	1	769	1	0.9	1	0.055	0	46	1	75	1	38	1	527	1	710	1	55	1	1.6	0	0.7	0	33.9	1	115	1	10MP03SS
5530	1	6670	1	750	1	0.9	1	0.055	0	71	1	73.8	1	24	1	502	1	860	1	53	1	1.6	0	0.7	0	33.5	1	110	1	10MP04SS
4460	1	5660	1	697	1	0.9	1	0.052	0	45	1	72.9	1	24	1	523	1	900	1	45	1	1.5	0	0.7	0	34.7	1	106	1	10MP05SS
4420	1	4520	1	496	1	0.9	1	0.057	0	34	1	81.3	1	22	1	616	1	750	1	62	1	1.7	0	0.7	0	33.5	1	120	1	10MP06070809SS
5750	1	5640	1	580	1	0.9	1	0.055	0	29	1	77.2	1	33	1	596	1	750	1	45	1	1.6	0	0.7	0	29	1	95	1	10MP06SS
8200	1	4280	1	572	1	0.9	1	0.11	0	32	1	77	1	10	1	692	1	790	1	55	1	3.2	0	1.4	0	29	1	110	1	10MP07SS
1220	1	3040	1	286	1	0.8	1	0.055	0	24	1	79.5	1	29	1	688	1	295	1	65	1	1.6	0	0.7	0	31.4	1	135	1	10MP08SS
1990	1	4200	1	424	1	0.8	1	0.056	0	33	1	70	1	29	1	650	1	560	1	58	1	1.6	0	0.7	0	30.3	1	107	1	10MP09SS
470	1	1540	1	225	1	0.8	1	0.054	0	23	1	83.5	1	30	1	813	1	172	1	64	1	1.6	0	0.7	0	39	1	136	1	10MP10SS
6980	1	5320	1	796	1	1	1	0.052	0	43	1	86.7	1	19	1	785	1	660	1	69	1	1.5	0	0.6	0	34.5	1	126	1	10MP11SS
10900	1	4870	1	746	1	1	1	0.11	0	35	1	90	1	1	0	801	1	304	1	64	1	3.2	0	1.4	0	32	1	122	1	10MP12SS
12100	1	4890	1	840	1	0.9	1	0.11	0	41	1	77	1	1	0	676	1	690	1	64	1	3.3	0	1.4	0	31	1	115	1	10MP13SS
3400	1	2320	1	462	1	0.8	1	0.055	0	24	1	72.3	1	24	1	874	1	162	1	58	1	1.6	0	0.7	0	36.4	1	118	1	10MP14SS
11800	1	4660	1	1160	1	1.1	1	0.12	0	30	1	87	1	20	1	694	1	217	1	58	1	3.5	0	1.5	0	32	1	125	1	10MP15SS
1570	1	6950	1	358	1	0.7	1			40	1		1	16	1		1	290	1	56	1	1.5	0		0	27.6	1	93	1	10MP16SS
		5540	1	1020	1	1	1	0.052	0	51	1	81.9	1									1.5	0	0.7	0	34.8	1	110	1	10MP17SS
4810	1	2570	1	462	1	0.8	1	0.054	0	27	1	72.9	1	16	1	965	1	136	1	54	1	1.6	0	0.7	0	35.8	1	112	1	10MP18SS
40	1	170	1	90.3	1	0.6	1	0.06	0	23	1	32.4	1	9	1	537	1	38	1	40	1	1.8	0	0.7	0	45.4	1	83	1	10MP19SS
40	1	230	1	213	1	0.7	1	1.1	1	25	1	89.7	1	40	1	1040	1	62	1	66	1	1.6	0	0.7	0	39.8	1	386	1	10MP20SS
80	1	360	1	319	1	0.8	1	0.8	1	32	1	96.9	1	24	1	1390	1	63	1	80	1	1.6	0	0.7	0	49.5	1	209	1	10MP21SS
2500	1	1960	1	346	1	0.8	1	0.054	0	25	1	87.9	1	28	1	991	1	106	1	79	1	1.6	0	0.7	0	31.6	1	160	1	10MP22SS
8720	1	4380	1	598	1	0.9	1	0.1	0	30	1	117	1	10	1	892	1	261	1	60	1	3	0	1.3	0	33	1	117	1	10MP23SS
1180	1	2020	1	277	1	0.7	1	1	1	26	1	82.3	1	30	1	768	1	440	1	30	1	1.6	0	0.7	0	27.3	1	152	1	10MP24SS
14100	1	5400	1	882	1	1	1	0.11	0	41	1	95	1	80	1	604	1	1340	1	56	1	3.2	0	1.3	0	31	1	113	1	10MP25SS
15100	1	6420	1	890	1	1	1	0.11	0	49	1	97	1	1	0	829	1	1620	1	62	1	3.1	0	1.3	0	34	1	122	1	10MP26SS
8480	1	6100	1	735	1	1	1	0.11	0	37	1	139	1	220	1	708	1	250	1	61	1	3.2	0	1.4	0	32	1	108	1	10MP27SS
4780	1	5350	1	682	1	0.9	1	0.052	0	33	1	77	1	43	1	617	1	820	1	53	1	1.5	0	0.7	0	31.1	1	108	1	10MP28SS
16700	1	6170	1	870	1	0.21	0	0.21	0	41	1	94	1	1.9	0	739	1	440	1	60	1	6.3	0	2.7	0	35	1	120	1	10MP29SS
720	1	2930	1	263	1	0.7	1	0.057	0	22	1	63.7	1	57	1	539	1	400	1	52	1	1.7	0	0.7	0	29.4	1	94	1	10MP30SS
7	1	19	1	76.2	1	0.4	1	0.3	1	21.5	1	17.9	1	7	1	258	1	0.28	1	20	1	0.76	0	0.32	0	47.5	1	51	1	10MP31SS
1430	1	9880	1	126	1	0.7	1	0.12	0	19	1	71	1	180	1	708	1	127	1	48	1	3.5	0	1.5	0	21	1	112	1	10MP32SS
9	1	18	1	112	1	0.3	1	0.032	0	18.7	1	20.2	1	8	1	158	1	1.46	1	18	1	0.93	0	0.4	0	32.2	1	38	1	10MP33SS
780	1	8510	1	101	1	0.7	1	0.11	0	10	1	73	1	160	1	814	1	79	1	52	1	3.2	0	1.4	0	20	1	109	1	10MP34SS
1680	1	2390	1	474	1	0.6	1	0.059	0	37	1	46.2	1	43	1	764	1	183	1	61	1	1	0	0.7	0	35.6	1	90	1	10MP35SS
690	1	7050	1	145	1	0.8	1			18	1		1	198	1	1090	1					1.7	0	0.7	0	25.3	1	110	1	10MP36SS
20	1	60	1	144	1	0.5	1	0.7	1	24	1	35.4	1	9	1	480	1	3.6	1	44	1	1.7	0	0.7	0	41.1	1	88	1	10MP37SS
760	1	992	1	207	1	0.6	1	0.023	0	22.9	1	44.4	1	17	1	540	1	154	1	49	1	0.67	0	0.28	0	35.6	1	90	1	10MP38SS
1910	1	1770	1	401	1	0.6	1	0.056	0	34	1	40.5	1	12	1	486	1	42	1	49	1	1.6	0	0.7	0	34.1	1	84	1	10MP39SS
267	1	375	1	162	1	0.5	1	0.2	1	25.4	1	38.2	1	9	1	310	1	15	1	39	1	0.7	0	0.3	0	39.3	1	94	1	10MP40SS
39	1	516	1	102	1	0.4	1	0.022	0	18.9	1	24.5	1	6	1	313	1	8	1	31	1	0.65	0	0.28	0	30.8	1	60	1	10MP41SS
880	1	1840	1	211	1	0.8	1	0.054	0	20	1	80.1	1	22	1	702	1	136	1	64	1	1.6	0	0.7	0	32.7	1	145	1	10MP424344SS
560	1	1770	1	218	1	0.8	1	0.053	0	20	1	71.4	1	22	1	759	1	124	1	59	1	1.6	0	0.7	0	30.9	1	126	1	10MP42SS
720	1	2080	1	224	1	0.8	1	0.052	0	21	1	73.3	1	24	1	789	1	149	1	60	1	1.5	0	0.7	0	31.2	1	124	1	10MP43SS
340	1	860	1	196	1	0.7	1	0.056	0	19	1	80.8	1	23	1	656	1	86	1	58	1	1.7	0	0.7	0	35.5	1	147	1	10MP44SS
220	1	1800	1	205	1	0.9	1	0.053	0	19	1	74.4	1	21	1	877	1	87	1	61	1	1.6	0	0.7	0	37.3	1	140	1	10MP45SS
13000	1	4940	1	892	1	1.1	1	0.11	0	39	1	91	1	1	0	758	1	194	1	69	1	3.2	0	1.3	0	34	1	126	1	10MP46SS
90	1	1180	1	191	1	0.8	1	0.053	0	20	1	78.6	1	18	1	672	1	118	1	72	1	1.6	0	0.7	0	31.9	1	146	1	10MP47SS
5980	1	3940	1	498	1	0.8	1	0.051	0	31	1	73	1	3090	1	737	1	1260	1	48	1	1.5	0	0.6</						

General UCL Statistics for Data Sets with Non-Detects

User Selected Options
 From File ProUCL Input.wst
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Antimony

General Statistics

Number of Valid Data	127	Number of Detected Data	105
Number of Distinct Detected Data	86	Number of Non-Detect Data	22
Number of Missing Values	8	Percent Non-Detects	17.32%

Raw Statistics

Minimum Detected	0.708	Log-transformed Statistics	
Maximum Detected	23300	Minimum Detected	-0.345
Mean of Detected	3044	Maximum Detected	10.06
SD of Detected	4713	Mean of Detected	6.32
Minimum Non-Detect	0.45	SD of Detected	2.337
Maximum Non-Detect	2.3	Minimum Non-Detect	-0.799
		Maximum Non-Detect	0.833

Note: Data have multiple DLs - Use of KM Method is recommended
 For all methods (except KM, DL/2, and ROS Methods),
 Observations < Largest ND are treated as NDs

Number treated as Non-Detect	23
Number treated as Detected	104
Single DL Non-Detect Percentage	18.11%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.284	Lilliefors Test Statistic	0.0985
5% Lilliefors Critical Value	0.0865	5% Lilliefors Critical Value	0.0865
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution

DL/2 Substitution Method		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2517	Mean	5.051
SD	4435	SD	3.506
95% DL/2 (t) UCL	3169	95% H-Stat (DL/2) UCL	366749

Maximum Likelihood Estimate(MLE) Method

Mean	1895	Log ROS Method	
SD	5074	Mean in Log Scale	5.462
95% MLE (t) UCL	2641	SD in Log Scale	2.848
95% MLE (Tiku) UCL	2621	Mean in Original Scale	2517
		SD in Original Scale	4435
		95% t UCL	3169
		95% Percentile Bootstrap UCL	3185
		95% BCA Bootstrap UCL	3323
		95% H UCL	40686

Gamma Distribution Test with Detected Values Only

		Data Distribution Test with Detected Values Only	
		Data Follow Appr. Gamma Distribution at 5% Significance	
k star (bias corrected)	0.384	Level	
Theta Star	7928		
nu star	80.63		

A-D Test Statistic

5% A-D Critical Value	1.305	Nonparametric Statistics	
K-S Test Statistic	0.846	Kaplan-Meier (KM) Method	
5% K-S Critical Value	0.846	Mean	2517
Data follow Appr. Gamma Distribution at 5% Significance Level	0.0946	SD	4418
		SE of Mean	393.9

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data		95% KM (t) UCL	3169
Minimum	1.00E-06	95% KM (z) UCL	3165
Maximum	23300	95% KM (jackknife) UCL	3168
Mean	2517	95% KM (bootstrap t) UCL	3273
Median	470	95% KM (BCA) UCL	3181
		95% KM (Percentile Bootstrap) UCL	3179
		95% KM (Chebyshev) UCL	4234

SD	4435	97.5% KM (Chebyshev) UCL	4977
k star	0.155	99% KM (Chebyshev) UCL	6436
Theta star	16246		
Nu star	39.35	Potential UCLs to Use	
AppChi2	25.98	95% KM (Chebyshev) UCL	4234
95% Gamma Approximate UCL (Use when n >= 40)	3812		
95% Adjusted Gamma UCL (Use when n < 40)	3830		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Arsenic

General Statistics

Number of Valid Data	127	Number of Detected Data	126
Number of Distinct Detected Data	116	Number of Non-Detect Data	1
Number of Missing Values	8	Percent Non-Detects	0.79%

Raw Statistics

Minimum Detected	9	Minimum Detected	2.197
Maximum Detected	9880	Maximum Detected	9.198
Mean of Detected	2300	Mean of Detected	6.64
SD of Detected	2372	SD of Detected	2.012
Minimum Non-Detect	0.9	Minimum Non-Detect	-0.105
Maximum Non-Detect	0.9	Maximum Non-Detect	-0.105

Log-transformed Statistics

UCL Statistics

Normal Distribution Test with Detected Values Only	0.167	Lognormal Distribution Test with Detected Values Only	0.162
Lilliefors Test Statistic	0.0789	Lilliefors Test Statistic	0.0789
5% Lilliefors Critical Value		5% Lilliefors Critical Value	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution

DL/2 Substitution Method	2282	Mean	6.581
Mean	2371	SD	2.109
SD	2631	95% H-Stat (DL/2) UCL	12624
95% DL/2 (t) UCL			

Assuming Lognormal Distribution

DL/2 Substitution Method	2272	Mean in Log Scale	6.598
Mean	2376	SD in Log Scale	2.059
SD	2621	Mean in Original Scale	2282
95% MLE (t) UCL	2599	SD in Original Scale	2371
95% MLE (Tiku) UCL		95% t UCL	2631
		95% Percentile Bootstrap UCL	2632
		95% BCA Bootstrap UCL	2658
		95% H UCL	11241

Maximum Likelihood Estimate(MLE) Method

Mean	2272	Mean in Log Scale	6.598
SD	2376	SD in Log Scale	2.059
95% MLE (t) UCL	2621	Mean in Original Scale	2282
95% MLE (Tiku) UCL	2599	SD in Original Scale	2371
		95% t UCL	2631
		95% Percentile Bootstrap UCL	2632
		95% BCA Bootstrap UCL	2658
		95% H UCL	11241

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.558	Data Distribution Test with Detected Values Only	Data do not follow a Discernable Distribution (0.05)
Theta Star	4122		
nu star	140.6		

A-D Test Statistic

5% A-D Critical Value	2.133	Nonparametric Statistics	
K-S Test Statistic	0.813	Kaplan-Meier (KM) Method	
5% K-S Critical Value	0.813	Mean	2282
Data not Gamma Distributed at 5% Significance Level	0.0871	SD	2362
		SE of Mean	210.4
		95% KM (t) UCL	2631
		95% KM (z) UCL	2628

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	1.00E-06	95% KM (jackknife) UCL	2631
Minimum	9880	95% KM (bootstrap t) UCL	2651
Maximum		95% KM (BCA) UCL	2640

Mean	2282	95% KM (Percentile Bootstrap) UCL	2633
Median	1410	95% KM (Chebyshev) UCL	3199
SD	2371	97.5% KM (Chebyshev) UCL	3596
k star	0.499	99% KM (Chebyshev) UCL	4375
Theta star	4573		
Nu star	126.7	Potential UCLs to Use	
AppChi2	101.7	97.5% KM (Chebyshev) UCL	3596
95% Gamma Approximate UCL (Use when n >= 40)	2843		
95% Adjusted Gamma UCL (Use when n < 40)	2850		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Barium

General Statistics			
Number of Valid Observations	127	Number of Distinct Observations	110
Number of Missing Values	8		
Raw Statistics		Log-transformed Statistics	
Minimum	76.2	Minimum of Log Data	4.333
Maximum	1710	Maximum of Log Data	7.444
Mean	335.5	Mean of log Data	5.581
Geometric Mean	265.3	SD of log Data	0.657
Median	220		
SD	265.7		
Std. Error of Mean	23.58		
Coefficient of Variation	0.792		
Skewness	2.042		
Relevant UCL Statistics		Lognormal Distribution Test	
Normal Distribution Test			
Lilliefors Test Statistic	0.219	Lilliefors Test Statistic	0.127
Lilliefors Critical Value	0.0786	Lilliefors Critical Value	0.0786
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	374.6	95% H-UCL	368.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	419.9
95% Adjusted-CLT UCL (Chen-1995)	378.8	97.5% Chebyshev (MVUE) UCL	459.4
95% Modified-t UCL (Johnson-1978)	375.3	99% Chebyshev (MVUE) UCL	537.1
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.235	Data do not follow a Discernable Distribution (0.05)	
Theta Star	150.1		
MLE of Mean	335.5		
MLE of Standard Deviation	224.4		
nu star	567.8		
Approximate Chi Square Value (.05)	513.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0481	95% CLT UCL	374.3
Adjusted Chi Square Value	512.9	95% Jackknife UCL	374.6
		95% Standard Bootstrap UCL	374.8
Anderson-Darling Test Statistic	4.241	95% Bootstrap-t UCL	381
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	382.2
Kolmogorov-Smirnov Test Statistic	0.16	95% Percentile Bootstrap UCL	377
Kolmogorov-Smirnov 5% Critical Value	0.0834	95% BCA Bootstrap UCL	376
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	438.3
		97.5% Chebyshev(Mean, Sd) UCL	482.7
		99% Chebyshev(Mean, Sd) UCL	570.1
Assuming Gamma Distribution			
95% Approximate Gamma UCL (Use when n >= 40)	370.9		
95% Adjusted Gamma UCL (Use when n < 40)	371.4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	438.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Beryllium

General Statistics		
Number of Valid Data	127	Number of Detected Data 124
Number of Distinct Detected Data	13	Number of Non-Detect Data 3
Number of Missing Values	8	Percent Non-Detects 2.36%
Raw Statistics		
Minimum Detected	0.3	Log-transformed Statistics Minimum Detected -1.204
Maximum Detected	1.3	Maximum Detected 0.262
Mean of Detected	0.708	Mean of Detected -0.399
SD of Detected	0.225	SD of Detected 0.332
Minimum Non-Detect	0.21	Minimum Non-Detect -1.561
Maximum Non-Detect	0.22	Maximum Non-Detect -1.514
Note: Data have multiple DLs - Use of KM Method is recommended		
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Non-Detect 3
Observations < Largest ND are treated as NDs		Number treated as Detected 124
		Single DL Non-Detect Percentage 2.36%
UCL Statistics		
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only
Lilliefors Test Statistic	0.119	Lilliefors Test Statistic 0.161
5% Lilliefors Critical Value	0.0796	5% Lilliefors Critical Value 0.0796
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level
Assuming Normal Distribution		
DL/2 Substitution Method		Assuming Lognormal Distribution
Mean	0.693	DL/2 Substitution Method
SD	0.241	Mean -0.442
95% DL/2 (t) UCL	0.729	SD 0.432
		95% H-Stat (DL/2) UCL 0.756
Maximum Likelihood Estimate(MLE) Method		
Mean	0.694	Log ROS Method
SD	0.239	Mean in Log Scale -0.418
95% MLE (t) UCL	0.729	SD in Log Scale 0.352
95% MLE (Tiku) UCL	0.729	Mean in Original Scale 0.698
		SD in Original Scale 0.231
		95% t UCL 0.732
		95% Percentile Bootstrap UCL 0.732
		95% BCA Bootstrap UCL 0.732
		95% H UCL 0.74
Gamma Distribution Test with Detected Values Only		
k star (bias corrected)	9.414	Data Distribution Test with Detected Values Only
Theta Star	0.0752	Data do not follow a Discernable Distribution (0.05)
nu star	2335	
A-D Test Statistic		
5% A-D Critical Value	1.865	Nonparametric Statistics
K-S Test Statistic	0.752	Kaplan-Meier (KM) Method
5% K-S Critical Value	0.0832	Mean 0.698
Data not Gamma Distributed at 5% Significance Level		SD 0.23
		SE of Mean 0.0205
		95% KM (t) UCL 0.732
		95% KM (z) UCL 0.732
		95% KM (jackknife) UCL 0.732
	1.00E-06	95% KM (bootstrap t) UCL 0.733
	1.3	95% KM (BCA) UCL 0.734
	0.691	95% KM (Percentile Bootstrap) UCL 0.732
	0.7	95% KM (Chebyshev) UCL 0.787
	0.247	97.5% KM (Chebyshev) UCL 0.826
	1.918	99% KM (Chebyshev) UCL 0.902
	0.36	
	487	Potential UCLs to Use

AppChi2	436.9	95% KM (BCA) UCL	0.734
95% Gamma Approximate UCL (Use when n >= 40)	0.77		
95% Adjusted Gamma UCL (Use when n < 40)	0.771		
Note: DL/2 is not a recommended method.			

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Cadmium

General Statistics			
Number of Valid Data	127	Number of Detected Data	38
Number of Distinct Detected Data	13	Number of Non-Detect Data	89
Number of Missing Values	8	Percent Non-Detects	70.08%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.18	Minimum Detected	-1.715
Maximum Detected	1.3	Maximum Detected	0.262
Mean of Detected	0.541	Mean of Detected	-0.736
SD of Detected	0.275	SD of Detected	0.503
Minimum Non-Detect	0.021	Minimum Non-Detect	-3.863
Maximum Non-Detect	0.22	Maximum Non-Detect	-1.514

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	92
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	35
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	72.44%

UCL Statistics		Lognormal Distribution Test with Detected Values Only	
Normal Distribution Test with Detected Values Only	0.903	Shapiro Wilk Test Statistic	0.953
Shapiro Wilk Test Statistic	0.938	5% Shapiro Wilk Critical Value	0.938
5% Shapiro Wilk Critical Value		Data appear Lognormal at 5% Significance Level	
Data not Normal at 5% Significance Level			

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method	0.185	DL/2 Substitution Method	-2.716
Mean	0.278	SD	1.398
SD	0.226	95% H-Stat (DL/2) UCL	0.242
95% DL/2 (t) UCL			

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.856
		SD in Log Scale	0.886
		Mean in Original Scale	0.238
		SD in Original Scale	0.252
		95% t UCL	0.275
		95% Percentile Bootstrap UCL	0.275
		95% BCA Bootstrap UCL	0.277
		95% H-UCL	0.273

Gamma Distribution Test with Detected Values Only	3.944	Data Distribution Test with Detected Values Only	Data appear Lognormal at 5% Significance Level
k star (bias corrected)	0.137		
Theta Star	299.7		
nu star			

A-D Test Statistic	0.793	Nonparametric Statistics	
5% A-D Critical Value	0.752	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.752	Mean	0.288
5% K-S Critical Value	0.144	SD	0.222
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.02
		95% KM (t) UCL	0.321
		95% KM (z) UCL	0.321
		95% KM (jackknife) UCL	0.315
		95% KM (bootstrap t) UCL	0.323
		95% KM (BCA) UCL	0.368
		95% KM (Percentile Bootstrap) UCL	0.357

Median	1.00E-06	95% KM (Chebyshev) UCL	0.375
SD	0.29	97.5% KM (Chebyshev) UCL	0.413
k star	0.103	99% KM (Chebyshev) UCL	0.487
Theta star	1.567		
Nu star	26.24	Potential UCLs to Use	
AppChi2	15.57	95% KM (t) UCL	0.321
95% Gamma Approximate UCL (Use when n >= 40)	0.273	95% KM (% Bootstrap) UCL	0.357
95% Adjusted Gamma UCL (Use when n < 40)	0.275		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Chromium

General Statistics			
Number of Valid Observations	127	Number of Distinct Observations	68
Number of Missing Values	8		
Raw Statistics		Log-transformed Statistics	
Minimum	8	Minimum of Log Data	2.079
Maximum	101	Maximum of Log Data	4.615
Mean	27.42	Mean of log Data	3.244
Geometric Mean	25.64	SD of log Data	0.358
Median	25		
SD	11.44		
Std. Error of Mean	1.015		
Coefficient of Variation	0.417		
Skewness	2.788		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.153	Lilliefors Test Statistic	0.0868
Lilliefors Critical Value	0.0786	Lilliefors Critical Value	0.0786
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	29.1	95% H-UCL	28.91
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	31.22
95% Adjusted-CLT UCL (Chen-1995)	29.35	97.5% Chebyshev (MVUE) UCL	32.91
95% Modified-t UCL (Johnson-1978)	29.14	99% Chebyshev (MVUE) UCL	36.22
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.456	Data do not follow a Discernable Distribution (0.05)	
Theta Star	3.677		
MLE of Mean	27.42		
MLE of Standard Deviation	10.04		
nu star	1894		
Approximate Chi Square Value (.05)	1794	Nonparametric Statistics	
Adjusted Level of Significance	0.0481	95% CLT UCL	29.08
Adjusted Chi Square Value	1793	95% Jackknife UCL	29.1
		95% Standard Bootstrap UCL	29.11
Anderson-Darling Test Statistic	1.764	95% Bootstrap-t UCL	29.4
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	29.76
Kolmogorov-Smirnov Test Statistic	0.106	95% Percentile Bootstrap UCL	29.15
Kolmogorov-Smirnov 5% Critical Value	0.0825	95% BCA Bootstrap UCL	29.54
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	31.84
		97.5% Chebyshev(Mean, Sd) UCL	33.75
		99% Chebyshev(Mean, Sd) UCL	37.51
Assuming Gamma Distribution			
95% Approximate Gamma UCL (Use when n >= 40)	28.95		
95% Adjusted Gamma UCL (Use when n < 40)	28.96		
Potential UCL to Use		Use 95% Student's-t UCL	29.1
		or 95% Modified-t UCL	29.14

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Copper

General Statistics		
Number of Valid Observations	127	Number of Distinct Observations 114
Number of Missing Values	8	
Raw Statistics		Log-transformed Statistics
Minimum	17	Minimum of Log Data 2.833
Maximum	139	Maximum of Log Data 4.934
Mean	58.84	Mean of log Data 3.959
Geometric Mean	52.4	SD of log Data 0.507
Median	59.7	
SD	26.35	
Std. Error of Mean	2.338	
Coefficient of Variation	0.448	
Skewness	0.245	
Relevant UCL Statistics		Lognormal Distribution Test
Normal Distribution Test		
Lilliefors Test Statistic	0.107	Lilliefors Test Statistic 0.151
Lilliefors Critical Value	0.0786	Lilliefors Critical Value 0.0786
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level
Assuming Normal Distribution		Assuming Lognormal Distribution
95% Student's-t UCL	62.71	95% H-UCL 64.72
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 71.87
95% Adjusted-CLT UCL (Chen-1995)	62.74	97.5% Chebyshev (MVUE) UCL 77.22
95% Modified-t UCL (Johnson-1978)	62.72	99% Chebyshev (MVUE) UCL 87.71
Gamma Distribution Test		Data Distribution
k star (bias corrected)	4.373	Data do not follow a Discernable Distribution (0.05)
Theta Star	13.46	
MLE of Mean	58.84	
MLE of Standard Deviation	28.14	
nu star	1111	
Approximate Chi Square Value (.05)	1034	Nonparametric Statistics
Adjusted Level of Significance	0.0481	95% CLT UCL 62.68
Adjusted Chi Square Value	1033	95% Jackknife UCL 62.71
		95% Standard Bootstrap UCL 62.72
Anderson-Darling Test Statistic	2.425	95% Bootstrap-t UCL 62.83
Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL 62.63
Kolmogorov-Smirnov Test Statistic	0.14	95% Percentile Bootstrap UCL 62.49
Kolmogorov-Smirnov 5% Critical Value	0.0827	95% BCA Bootstrap UCL 62.81
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 69.03
		97.5% Chebyshev(Mean, Sd) UCL 73.44
		99% Chebyshev(Mean, Sd) UCL 82.1
Assuming Gamma Distribution		
95% Approximate Gamma UCL (Use when n >= 40)	63.18	
95% Adjusted Gamma UCL (Use when n < 40)	63.23	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL 69.03

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics		
Number of Valid Data	126	Number of Detected Data 117
Number of Distinct Detected Data	38	Number of Non-Detect Data 9
Number of Missing Values	9	Percent Non-Detects 7.14%

Raw Statistics	Log-transformed Statistics	
Minimum Detected	5 Minimum Detected	1.609
Maximum Detected	220 Maximum Detected	5.394
Mean of Detected	22.86 Mean of Detected	2.732
SD of Detected	34.04 SD of Detected	0.742
Minimum Non-Detect	0.9 Minimum Non-Detect	-0.105
Maximum Non-Detect	1.9 Maximum Non-Detect	0.642

Note: Data have multiple DLs - Use of KM Method is recommended
 For all methods (except KM, DL/2, and ROS Methods),
 Observations < Largest ND are treated as NDs

Number treated as Non-Detect	9
Number treated as Detected	117
Single DL Non-Detect Percentage	7.14%

UCL Statistics		
Normal Distribution Test with Detected Values Only	Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.302 Lilliefors Test Statistic	0.135
5% Lilliefors Critical Value	0.0819 5% Lilliefors Critical Value	0.0819
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution	Assuming Lognormal Distribution	
DL/2 Substitution Method	DL/2 Substitution Method	
Mean	21.27 Mean	2.501
SD	33.29 SD	1.103
95% DL/2 (t) UCL	26.19 95% H-Stat (DL/2) UCL	28.09

Maximum Likelihood Estimate(MLE) Method	Log ROS Method	
Mean	19.78 Mean in Log Scale	2.615
SD	34.84 SD in Log Scale	0.833
95% MLE (t) UCL	24.92 Mean in Original Scale	21.44
95% MLE (Tiku) UCL	24.54 SD in Original Scale	33.19
	95% t UCL	26.34
	95% Percentile Bootstrap UCL	26.59
	95% BCA Bootstrap UCL	28.8
	95% H UCL	22.52

Gamma Distribution Test with Detected Values Only	Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.372 Data do not follow a Discernable Distribution (0.05)	
Theta Star	16.66	
nu star	321.1	

A-D Test Statistic	8.318 Nonparametric Statistics	
5% A-D Critical Value	0.773 Kaplan-Meier (KM) Method	
K-S Test Statistic	0.773 Mean	21.59
5% K-S Critical Value	0.0868 SD	32.99
Data not Gamma Distributed at 5% Significance Level	SE of Mean	2.951

Assuming Gamma Distribution		
Gamma ROS Statistics using Extrapolated Data		
Minimum	1.00E-06 95% KM (t) UCL	26.48
Maximum	220 95% KM (z) UCL	26.44
Mean	21.23 95% KM (jackknife) UCL	26.41
Median	12 95% KM (bootstrap t) UCL	28.63
SD	33.32 95% KM (BCA) UCL	27.58
k star	0.427 95% KM (Percentile Bootstrap) UCL	26.85
Theta star	49.73 95% KM (Chebyshev) UCL	34.45
Nu star	107.6 97.5% KM (Chebyshev) UCL	40.02
AppChi2	84.64 99% KM (Chebyshev) UCL	50.95
95% Gamma Approximate UCL (Use when n >= 40)	Potential UCLs to Use	
95% Adjusted Gamma UCL (Use when n < 40)	95% KM (BCA) UCL	27.58
	26.98	
	27.06	

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Manganese

General Statistics		
Number of Valid Observations	126	Number of Distinct Observations 117
Number of Missing Values	9	
Raw Statistics		
Minimum	153	Log-transformed Statistics Minimum of Log Data 5.03
Maximum	1500	Maximum of Log Data 7.313
Mean	668.5	Mean of log Data 6.424
Geometric Mean	616.5	SD of log Data 0.423
Median	655.5	
SD	259.3	
Std. Error of Mean	23.1	
Coefficient of Variation	0.388	
Skewness	0.643	
Relevant UCL Statistics		
Normal Distribution Test		
Lilliefors Test Statistic	0.0751	Lilliefors Test Statistic 0.0878
Lilliefors Critical Value	0.0789	Lilliefors Critical Value 0.0789
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level
Assuming Normal Distribution		
95% Student's-t UCL	706.8	Assuming Lognormal Distribution 95% H-UCL 721.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 788.7
95% Adjusted-CLT UCL (Chen-1995)	707.9	97.5% Chebyshev (MVUE) UCL 838.5
95% Modified-t UCL (Johnson-1978)	707	99% Chebyshev (MVUE) UCL 936.3
Gamma Distribution Test		
k star (bias corrected)	6.186	Data Distribution Data appear Normal at 5% Significance Level
Theta Star	108.1	
MLE of Mean	668.5	
MLE of Standard Deviation	268.8	
nu star	1559	
Approximate Chi Square Value (.05)	1468	Nonparametric Statistics
Adjusted Level of Significance	0.0481	95% CLT UCL 706.5
Adjusted Chi Square Value	1467	95% Jackknife UCL 706.8
		95% Standard Bootstrap UCL 706.4
Anderson-Darling Test Statistic	0.687	95% Bootstrap-t UCL 707.7
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL 707.1
Kolmogorov-Smirnov Test Statistic	0.0681	95% Percentile Bootstrap UCL 708.7
Kolmogorov-Smirnov 5% Critical Value	0.0828	95% BCA Bootstrap UCL 708.7
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 769.2
		97.5% Chebyshev(Mean, Sd) UCL 812.8
		99% Chebyshev(Mean, Sd) UCL 898.4
Assuming Gamma Distribution		
95% Approximate Gamma UCL (Use when n >= 40)	709.8	
95% Adjusted Gamma UCL (Use when n < 40)	710.3	
Potential UCL to Use		Use 95% Student's-t UCL 706.8

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Mercury

General Statistics		
Number of Valid Observations	127	Number of Distinct Observations 111
Number of Missing Values	8	
Raw Statistics		
Minimum	0.05	Log-transformed Statistics Minimum of Log Data -2.996
Maximum	1620	Maximum of Log Data 7.39
Mean	196.6	Mean of log Data 3.699
Geometric Mean	40.42	SD of log Data 2.448
Median	94	

SD	296.1
Std. Error of Mean	26.27
Coefficient of Variation	1.506
Skewness	2.375

Relevant UCL Statistics

Normal Distribution Test	Lognormal Distribution Test	
Lilliefors Test Statistic	0.278 Lilliefors Test Statistic	0.152
Lilliefors Critical Value	0.0786 Lilliefors Critical Value	0.0786
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution

95% Student's-t UCL	240.1
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL (Chen-1995)	245.7
95% Modified-t UCL (Johnson-1978)	241

Assuming Lognormal Distribution

95% H-UCL	1854
95% Chebyshev (MVUE) UCL	1980
97.5% Chebyshev (MVUE) UCL	2517
99% Chebyshev (MVUE) UCL	3572

Gamma Distribution Test

k star (bias corrected)	0.409
Theta Star	480.3
MLE of Mean	196.6
MLE of Standard Deviation	307.3
nu star	104
Approximate Chi Square Value (.05)	81.43
Adjusted Level of Significance	0.0481
Adjusted Chi Square Value	81.2

Data Distribution

Data appear Gamma Distributed at 5% Significance Level

Anderson-Darling Test Statistic

Anderson-Darling 5% Critical Value	0.74
Kolmogorov-Smirnov Test Statistic	0.0771
Kolmogorov-Smirnov 5% Critical Value	0.0882

Nonparametric Statistics

95% CLT UCL	239.8
95% Jackknife UCL	240.1
95% Standard Bootstrap UCL	238.3
95% Bootstrap-t UCL	250.8
95% Hall's Bootstrap UCL	250.2
95% Percentile Bootstrap UCL	240
95% BCA Bootstrap UCL	242.5
95% Chebyshev(Mean, Sd) UCL	311.1
97.5% Chebyshev(Mean, Sd) UCL	360.6
99% Chebyshev(Mean, Sd) UCL	458

Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	250.9
95% Adjusted Gamma UCL (Use when n < 40)	251.6

Potential UCL to Use

Use 95% Adjusted Gamma UCL 251.6

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Nickel

General Statistics		
Number of Valid Observations	127	Number of Distinct Observations 56
Number of Missing Values	8	
Raw Statistics		Log-transformed Statistics
Minimum	18	Minimum of Log Data 2.89
Maximum	97	Maximum of Log Data 4.575
Mean	49.99	Mean of log Data 3.852
Geometric Mean	47.07	SD of log Data 0.364
Median	52	
SD	16.3	
Std. Error of Mean	1.446	
Coefficient of Variation	0.326	
Skewness	0.0218	
Relevant UCL Statistics		
Normal Distribution Test		
Lilliefors Test Statistic	0.0798	Lilliefors Test Statistic 0.136
Lilliefors Critical Value	0.0786	Lilliefors Critical Value 0.0786
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level
Assuming Normal Distribution		Assuming Lognormal Distribution
95% Student's-t UCL	52.39	95% H-UCL 53.22
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 57.54
95% Adjusted-CLT UCL (Chen-1995)	52.38	97.5% Chebyshev (MVUE) UCL 60.69
95% Modified-t UCL (Johnson-1978)	52.39	99% Chebyshev (MVUE) UCL 66.88
Gamma Distribution Test		Data Distribution
k star (bias corrected)	8.263	Data do not follow a Discernable Distribution (0.05)
Theta Star	6.05	
MLE of Mean	49.99	
MLE of Standard Deviation	17.39	
nu star	2099	
Approximate Chi Square Value (.05)	1994	Nonparametric Statistics
Adjusted Level of Significance	0.0481	95% CLT UCL 52.37
Adjusted Chi Square Value	1992	95% Jackknife UCL 52.39
		95% Standard Bootstrap UCL 52.43
Anderson-Darling Test Statistic	2.021	95% Bootstrap-t UCL 52.36
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL 52.34
Kolmogorov-Smirnov Test Statistic	0.118	95% Percentile Bootstrap UCL 52.42
Kolmogorov-Smirnov 5% Critical Value	0.0825	95% BCA Bootstrap UCL 52.41
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 56.3
		97.5% Chebyshev(Mean, Sd) UCL 59.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 64.38
95% Approximate Gamma UCL (Use when n >= 40)	52.64	
95% Adjusted Gamma UCL (Use when n < 40)	52.67	
Potential UCL to Use		Use 95% Student's-t UCL 52.39 or 95% Modified-t UCL 52.39

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Selenium

General Statistics		
Number of Valid Data	127	Number of Detected Data 2
Number of Distinct Detected Data	2	Number of Non-Detect Data 125
Number of Missing Values	8	Percent Non-Detects 98.43%
Raw Statistics		Log-transformed Statistics
Minimum Detected	0.24	Minimum Detected -1.427
Maximum Detected	0.42	Maximum Detected -0.868

Mean of Detected	0.33	Mean of Detected	-1.147
SD of Detected	0.127	SD of Detected	0.396
Minimum Non-Detect	0.61	Minimum Non-Detect	-0.494
Maximum Non-Detect	6.4	Maximum Non-Detect	1.856

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	127
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	N/A	Shapiro Wilk Test Statistic	N/A
5% Shapiro Wilk Critical Value	N/A	5% Shapiro Wilk Critical Value	N/A
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution

DL/2 Substitution Method		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.833	Mean	-0.341
SD	0.529	SD	0.553
95% DL/2 (t) UCL	0.911	95% H-Stat (DL/2) UCL	0.908

Maximum Likelihood Estimate(MLE) Method
MLE method failed to converge properly

N/A	Log ROS Method	
	Mean in Log Scale	N/A
	SD in Log Scale	N/A
	Mean in Original Scale	N/A
	SD in Original Scale	N/A
	95% t UCL	N/A
	95% Percentile Bootstrap UCL	N/A
	95% BCA Bootstrap UCL	N/A
	95% H-UCL	N/A

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	N/A	Data Distribution Test with Detected Values Only	
Theta Star	N/A	Data do not follow a Discernable Distribution (0.05)	
nu star	N/A		

A-D Test Statistic

5% A-D Critical Value	N/A	Nonparametric Statistics	
K-S Test Statistic	N/A	Kaplan-Meier (KM) Method	
5% K-S Critical Value	N/A	Mean	0.33
Data not Gamma Distributed at 5% Significance Level		SD	0.09
		SE of Mean	0.09

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data		95% KM (t) UCL	0.479
Gamma ROS Statistics using Extrapolated Data		95% KM (z) UCL	0.478
Minimum	N/A	95% KM (jackknife) UCL	0.54
Maximum	N/A	95% KM (bootstrap t) UCL	N/A
Mean	N/A	95% KM (BCA) UCL	N/A
Median	N/A	95% KM (Percentile Bootstrap) UCL	0.42
SD	N/A	95% KM (Chebyshev) UCL	0.722
k star	N/A	97.5% KM (Chebyshev) UCL	0.892
Theta star	N/A	99% KM (Chebyshev) UCL	1.225
Nu star	N/A	Potential UCLs to Use	

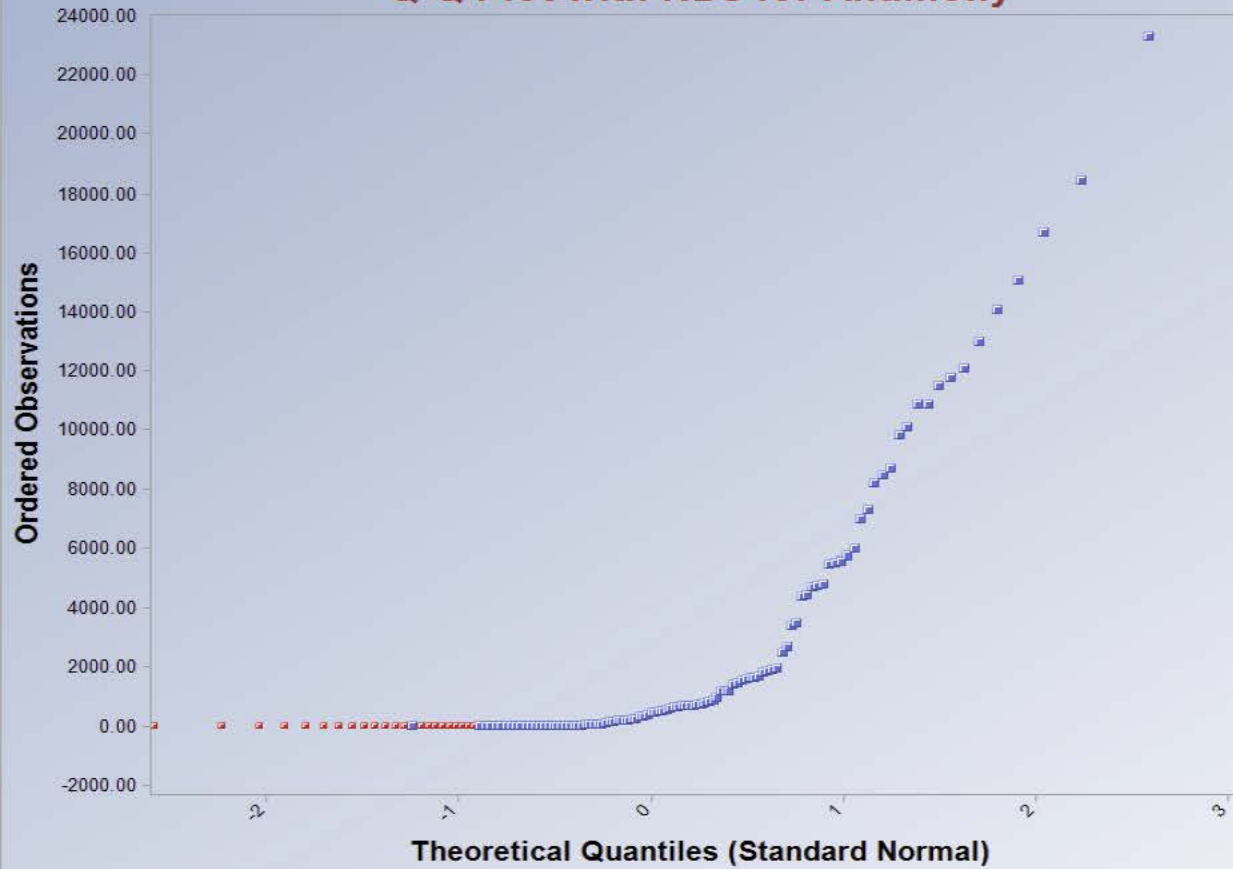
EPC Summary

Data Set	Analyte	Units	Observations ¹	Number of Detections	Mean of Detected	SD of Detected	m Detected	Distribution (detects only)	UCL Statistic	95% UCL	EPC	EPC Source
Surface Soil	Antimony	mg/kg	127	105	3,044	4,713	23,300	Gamma	95% KM (Chebyshev) UCL	4,234	4,234	95% UCL
Surface Soil	Arsenic	mg/kg	127	116	2,300	2,372	9,880	Not Discernable	97.5% KM (Chebyshev) UCL	3,596	3,596	95% UCL
Surface Soil	Barium	mg/kg	127	127	335.5	265.7	1,710	Not Discernable	95% Chebyshev (Mean, Sd) UCL	438.3	438.3	95% UCL
Surface Soil	Beryllium	mg/kg	127	124	0.708	0.225	1.3	Not Discernable	95% KM (BCA) UCL	0.734	0.734	95% UCL
Surface Soil	Cadmium	mg/kg	127	38	0.541	0.275	1.3	Lognormal	95% KM (t) UCL	0.321	0.321	95% UCL
Surface Soil	Chromium	mg/kg	127	127	27.42	11.44	101	Not Discernable	95% Student's-t UCL	29.1	29.1	95% UCL
Surface Soil	Copper	mg/kg	127	127	58.84	26.35	139	Not Discernable	95% Chebyshev (Mean, Sd) UCL	69.03	69.03	95% UCL
Surface Soil	Lead	mg/kg	126*	117	22.86	34.04	220	Not Discernable	95% KM (BCA) UCL	27.58	27.58	95% UCL
Surface Soil	Manganese	mg/kg	126*	126	668.5	259.3	1,500	Normal	95% Student's-t UCL	706.8	706.8	95% UCL
Surface Soil	Mercury	mg/kg	127	127	196.6	296.1	1,620	Gamma	95% Adjusted Gamma UCL	251.6	251.6	95% UCL
Surface Soil	Nickel	mg/kg	127	127	49.99	16.3	97	Not Discernable	95% Student's-t UCL	52.39	52.39	95% UCL
Surface Soil	Selenium	mg/kg	127	2	0.33	0.127	0.42	Not Discernable	95% KM (% Bootstrap) UCL	0.42	0.42	Max Detect
Surface Soil	Thallium	mg/kg	127	2	0.068	0.00424	0.071	Not Discernable	95% KM (% Bootstrap) UCL	0.071	0.071	Max Detect
Surface Soil	Vanadium	mg/kg	127	127	33.9	6.189	51.9	Gamma	95% Approximate Gamma UCL	34.82	34.82	95% UCL
Surface Soil	Zinc	mg/kg	126*	126	102.6	29.47	209	Normal	95% Student's-t UCL	107	107	95% UCL

* Minus 1 high outlier value.

¹ Duplicate observations resolved per ADEC guidance.

Q-Q Plot with NDs for Antimony

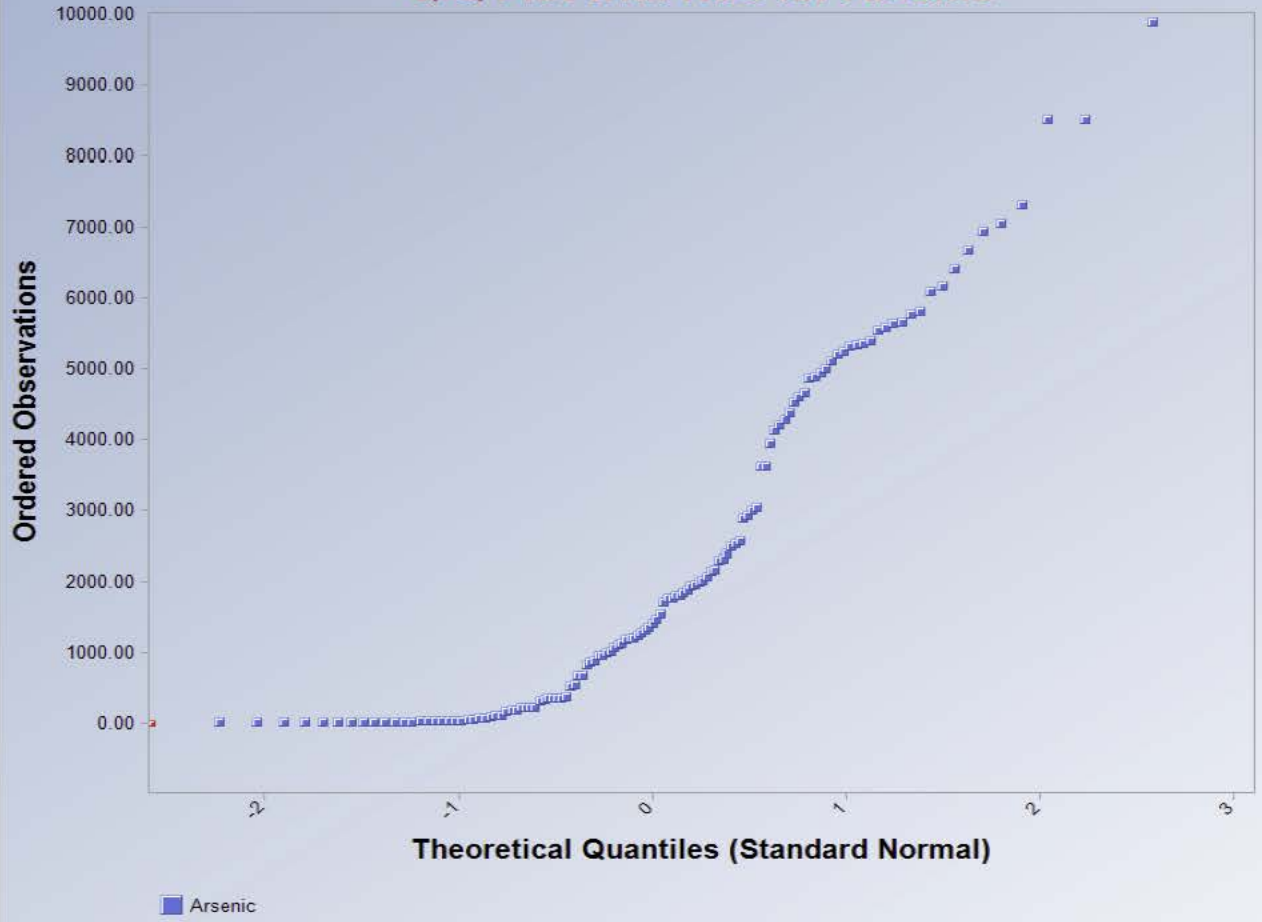


■ Antimony

Antimony

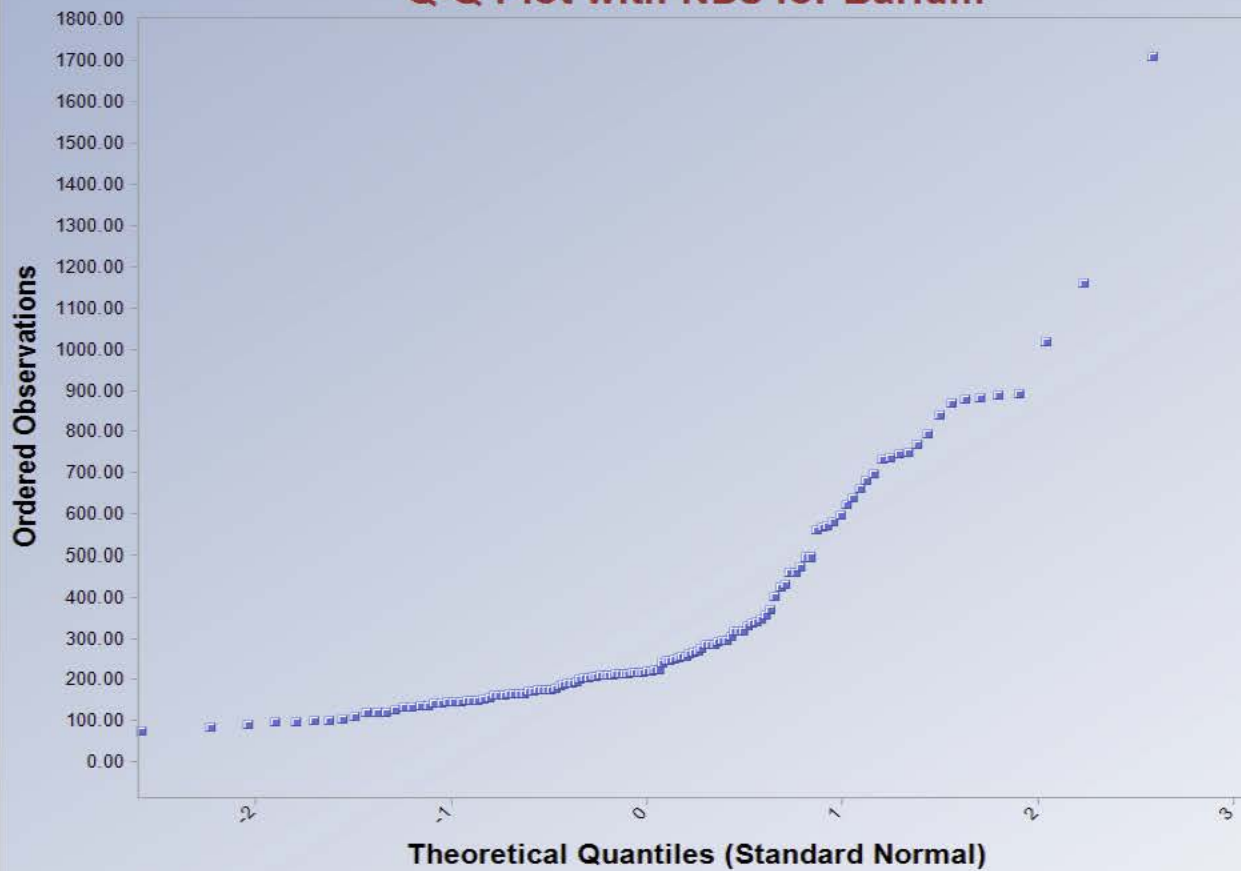
Total Number of Data = 127
Number of Non-Detects = 22
Number of Detects = 105
Mean = 2516.6905
Sd = 4435.4081
Slope = 3550.3081
Intercept = 2516.6905
Correlation, R = 0.7933

Q-Q Plot with NDs for Arsenic



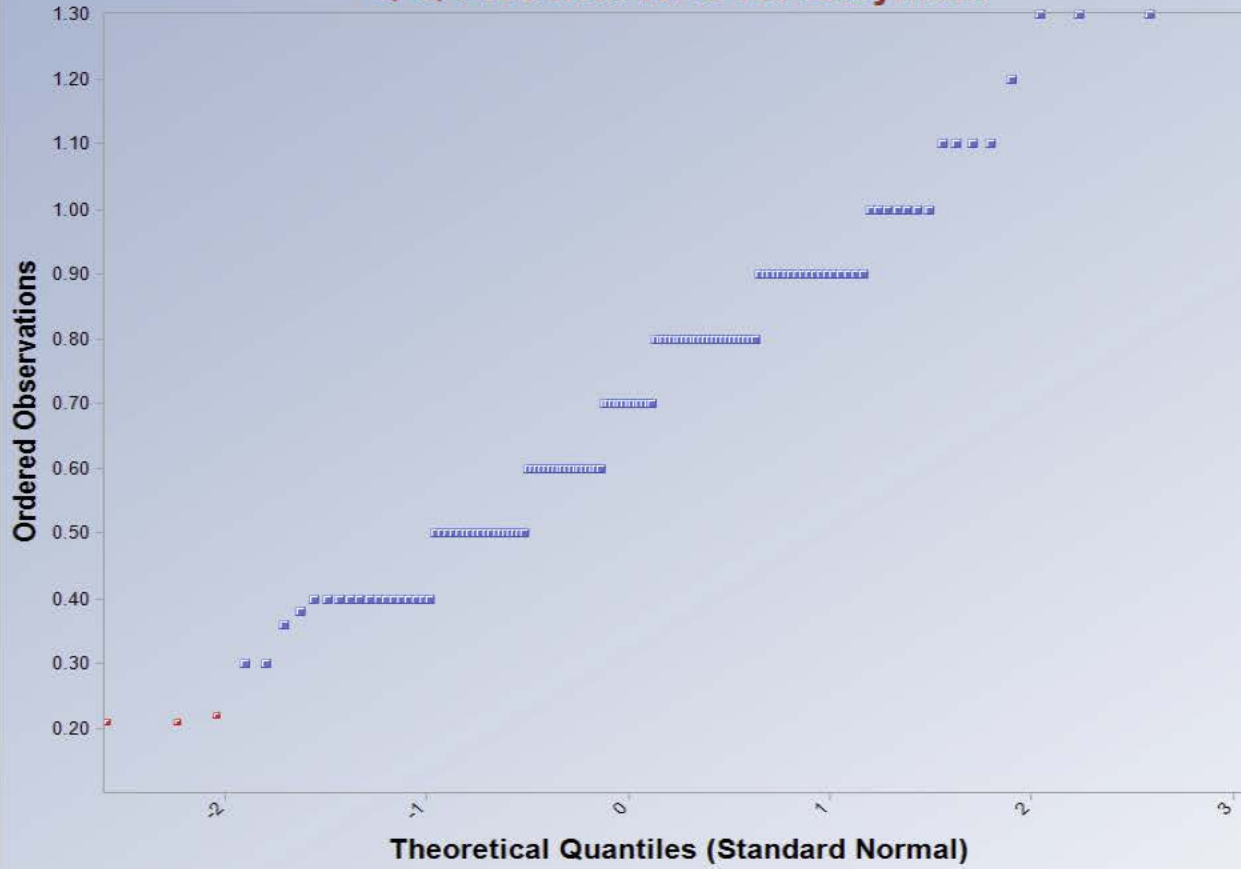
Arsenic
Total Number of Data = 127
Number of Non-Detects = 1
Number of Detects = 126
Mean = 2281.8866
Sd = 2371.1029
Slope = 2220.8578
Intercept = 2281.8866
Correlation, R = 0.9283

Q-Q Plot with NDs for Barium



Barium
Total Number of Data = 127
Number of Non-Detects = 0
Number of Detects = 127
Mean = 335.4850
Sd = 265.6871
Slope = 234.5536
Intercept = 335.4850
Correlation, R = 0.8749

Q-Q Plot with NDs for Beryllium



Beryllium

Total Number of Data = 127

Number of Non-Detects = 3

Number of Detects = 124

Mean = 0.6959

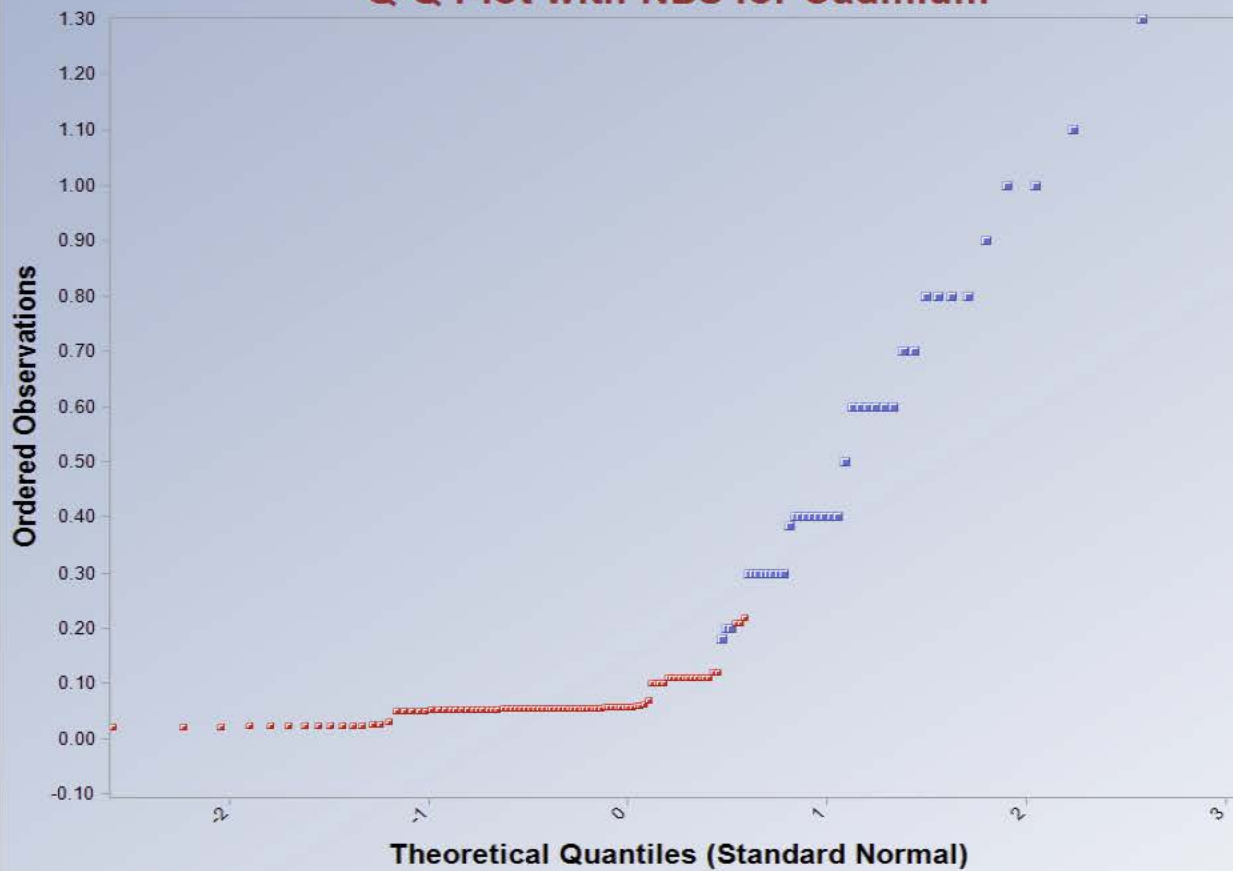
Sd = 0.2351

Slope = 0.2339

Intercept = 0.6959

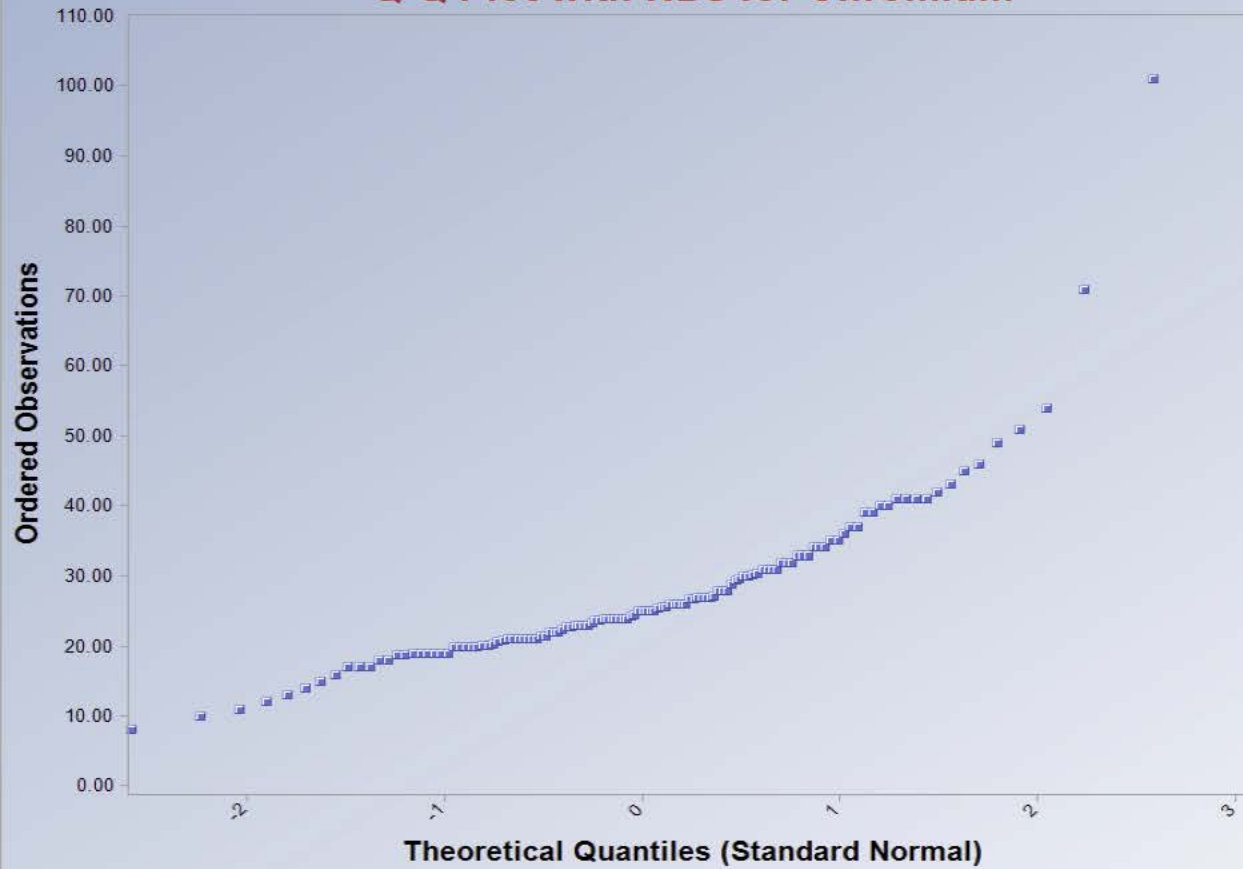
Correlation, R = 0.9858

Q-Q Plot with NDs for Cadmium



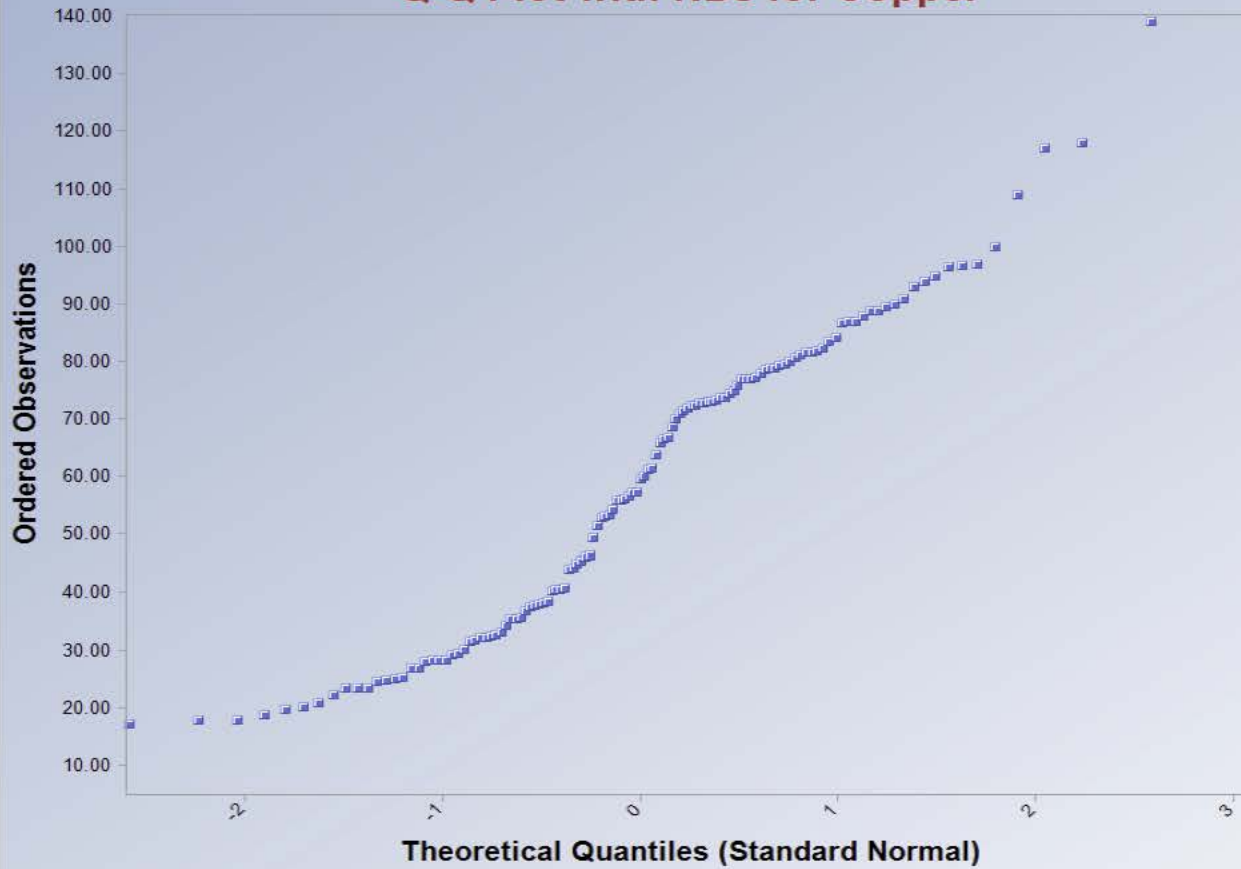
Cadmium
Total Number of Data = 127
Number of Non-Detects = 89
Number of Detects = 38
Mean = 0.2077
Sd = 0.2665
Slope = 0.2234
Intercept = 0.2077
Correlation, R = 0.8305

Q-Q Plot with NDs for Chromium



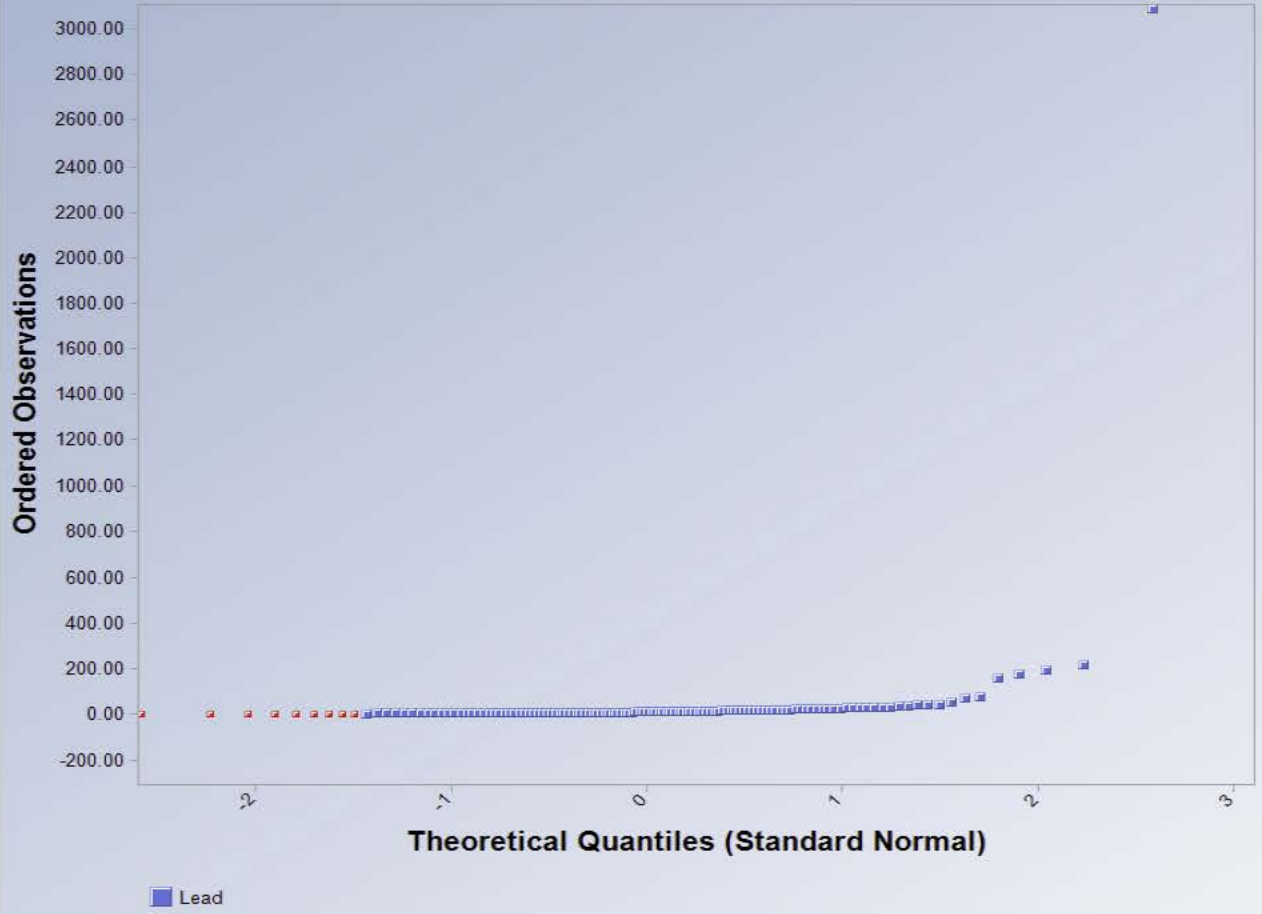
Chromium
Total Number of Data = 127
Number of Non-Detects = 0
Number of Detects = 127
Mean = 27.4157
Sd = 11.4358
Slope = 10.2198
Intercept = 27.4157
Correlation, R = 0.8857

Q-Q Plot with NDs for Copper



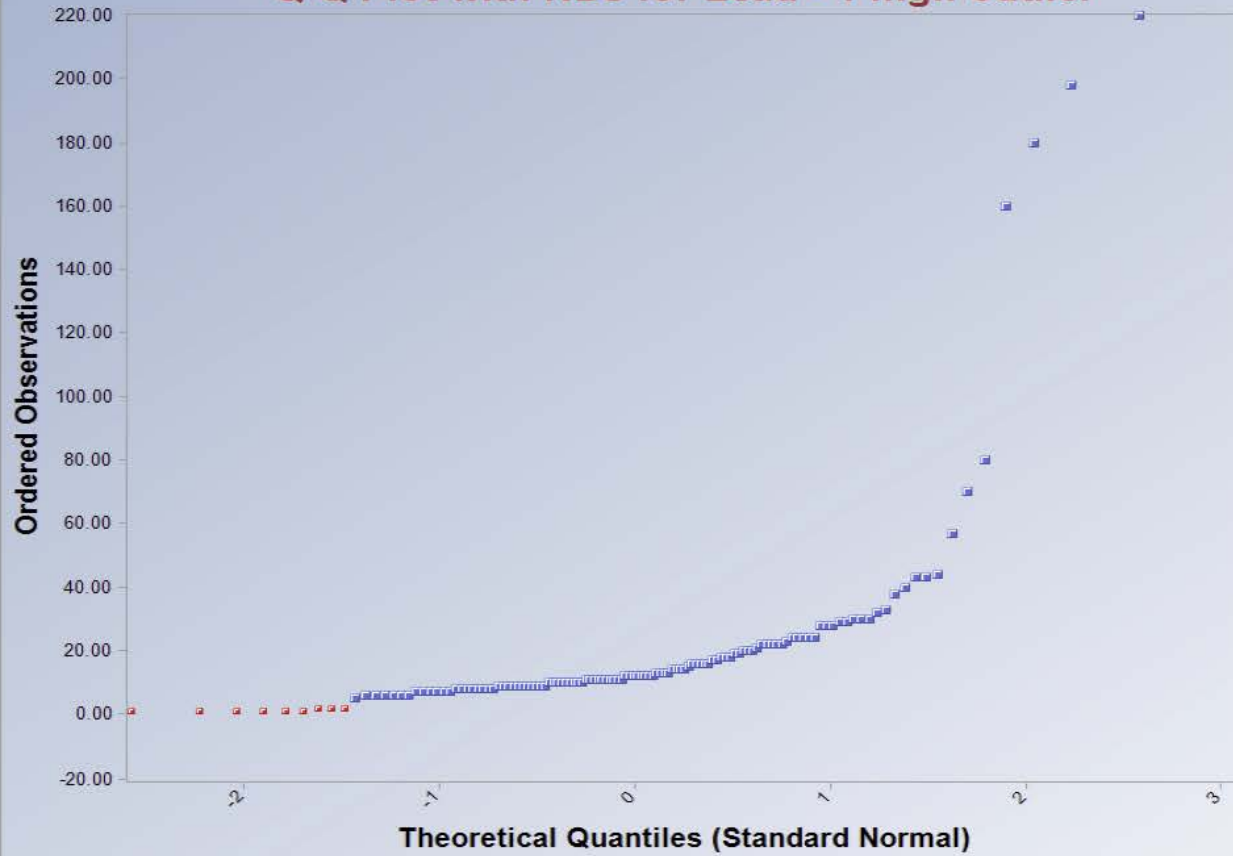
Copper
Total Number of Data = 127
Number of Non-Detects = 0
Number of Detects = 127
Mean = 58.8362
Sd = 26.3512
Slope = 26.0159
Intercept = 58.8362
Correlation, R = 0.9785

Q-Q Plot with NDs for Lead



Lead
Total Number of Data = 127
Number of Non-Detects = 9
Number of Detects = 118
Mean = 45.4832
Sd = 274.3097
Slope = 84.9842
Intercept = 45.4832
Correlation, R = 0.3070

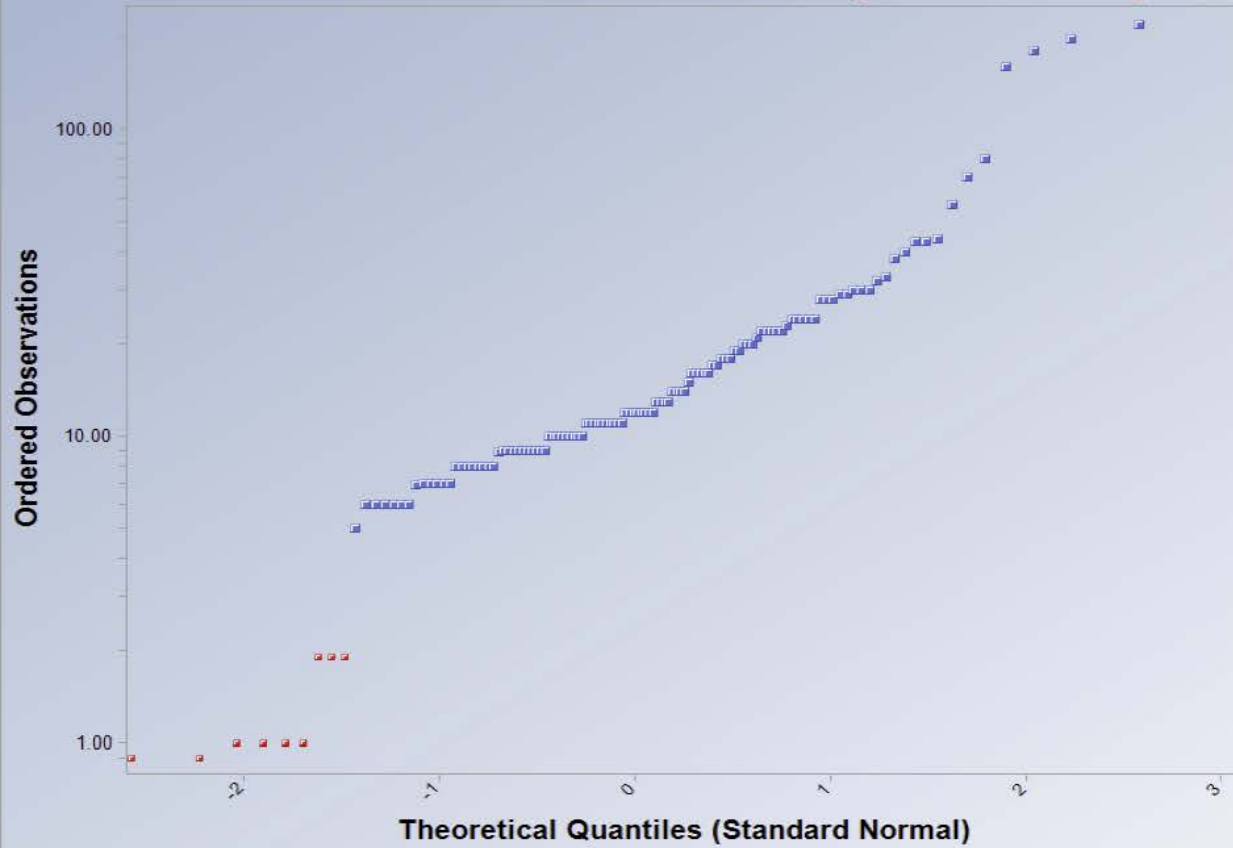
Q-Q Plot with NDs for Lead - 1 high outlier



Lead

Total Number of Data = 126
Number of Non-Detects = 9
Number of Detects = 117
Mean = 21.3204
Sd = 33.2656
Slope = 22.3585
Intercept = 21.3204
Correlation, R = 0.6661

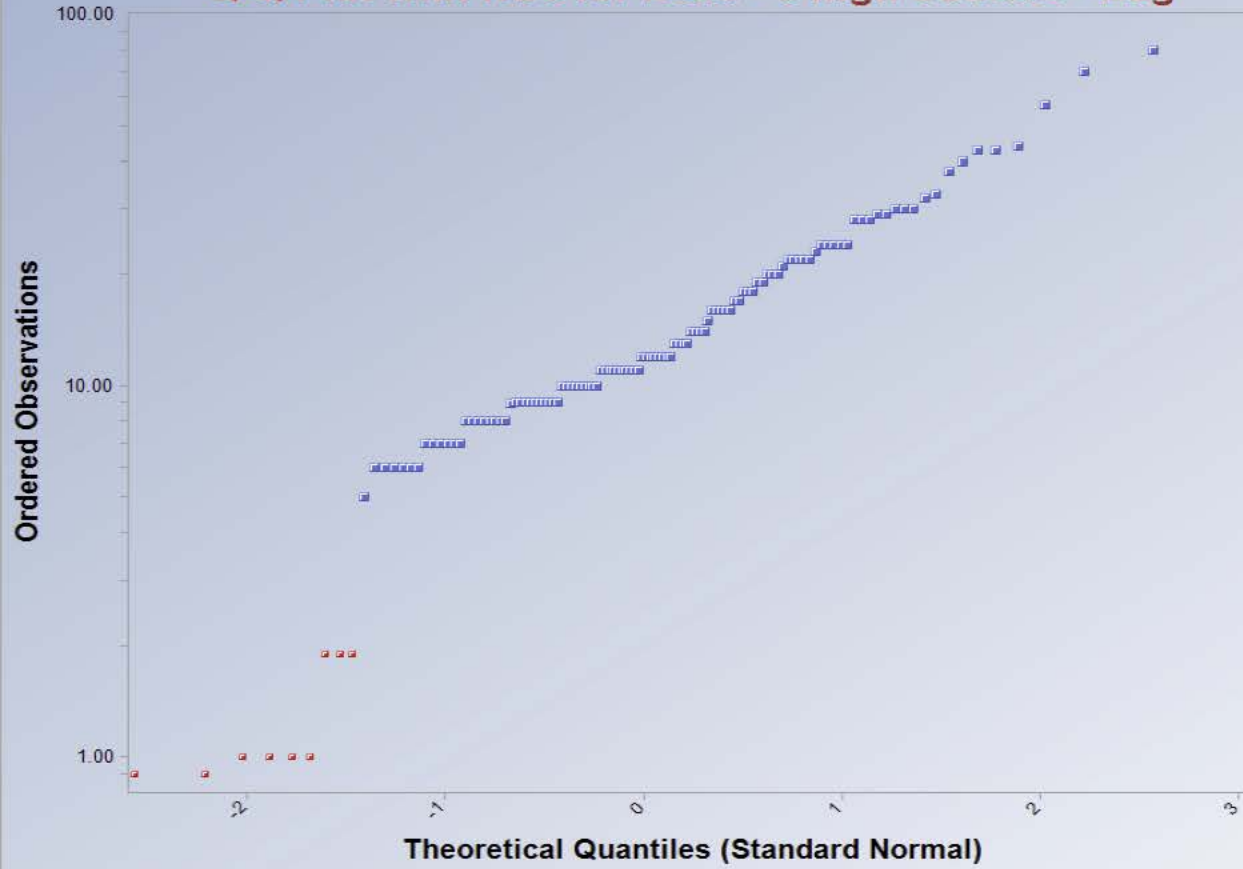
Q-Q Plot with NDs for Lead - 1 high outlier - Log



Lead

Total Number of Data = 126
Number of Non-Detects = 9
Number of Detects = 117
Mean = 21.3204
Sd = 33.2656
Slope = 22.3585
Intercept = 21.3204
Correlation, R = 0.6661

Q-Q Plot with NDs for Lead - 5 high outliers - Log

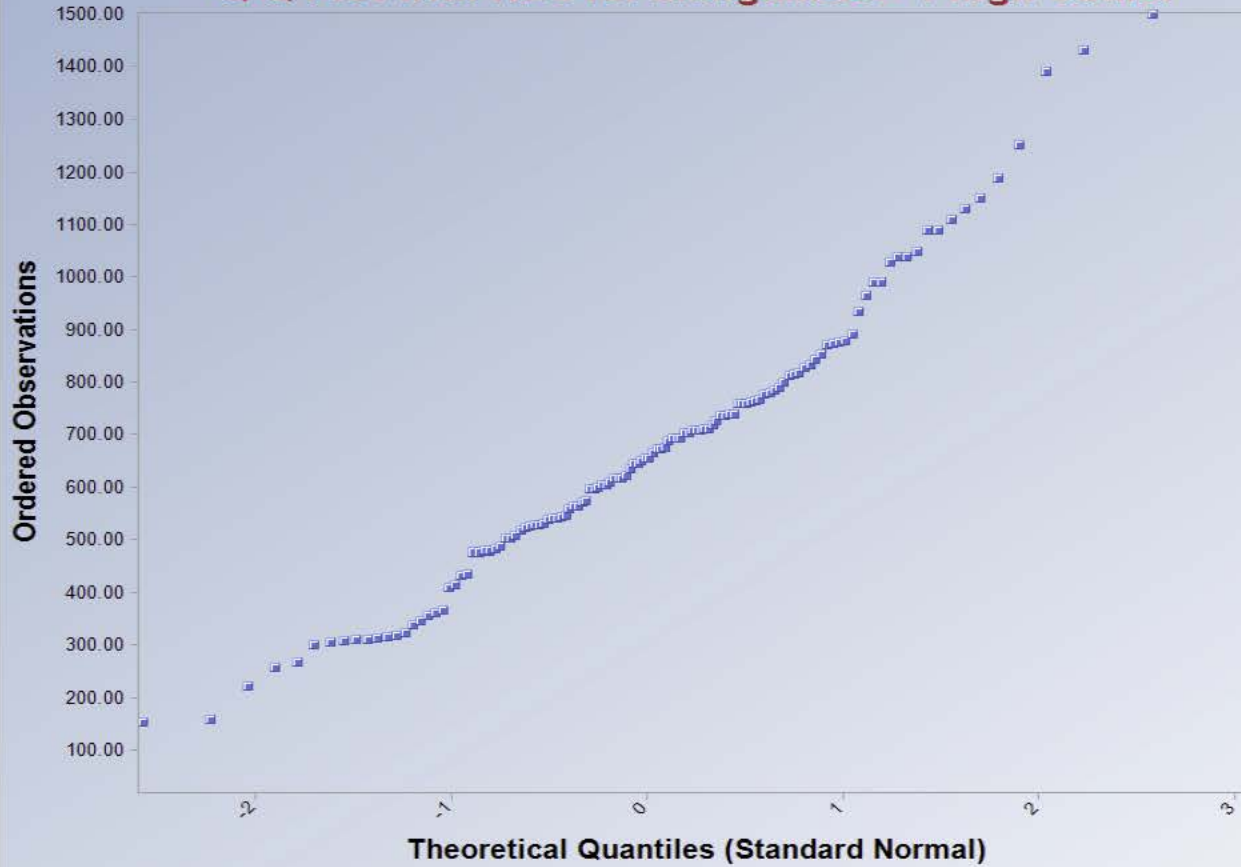


Lead

Total Number of Data = 122
Number of Non-Detects = 9
Number of Detects = 113
Mean = 15.8063
Sd = 12.6996
Slope = 11.3562
Intercept = 15.8063
Correlation, R = 0.8860

■ Lead

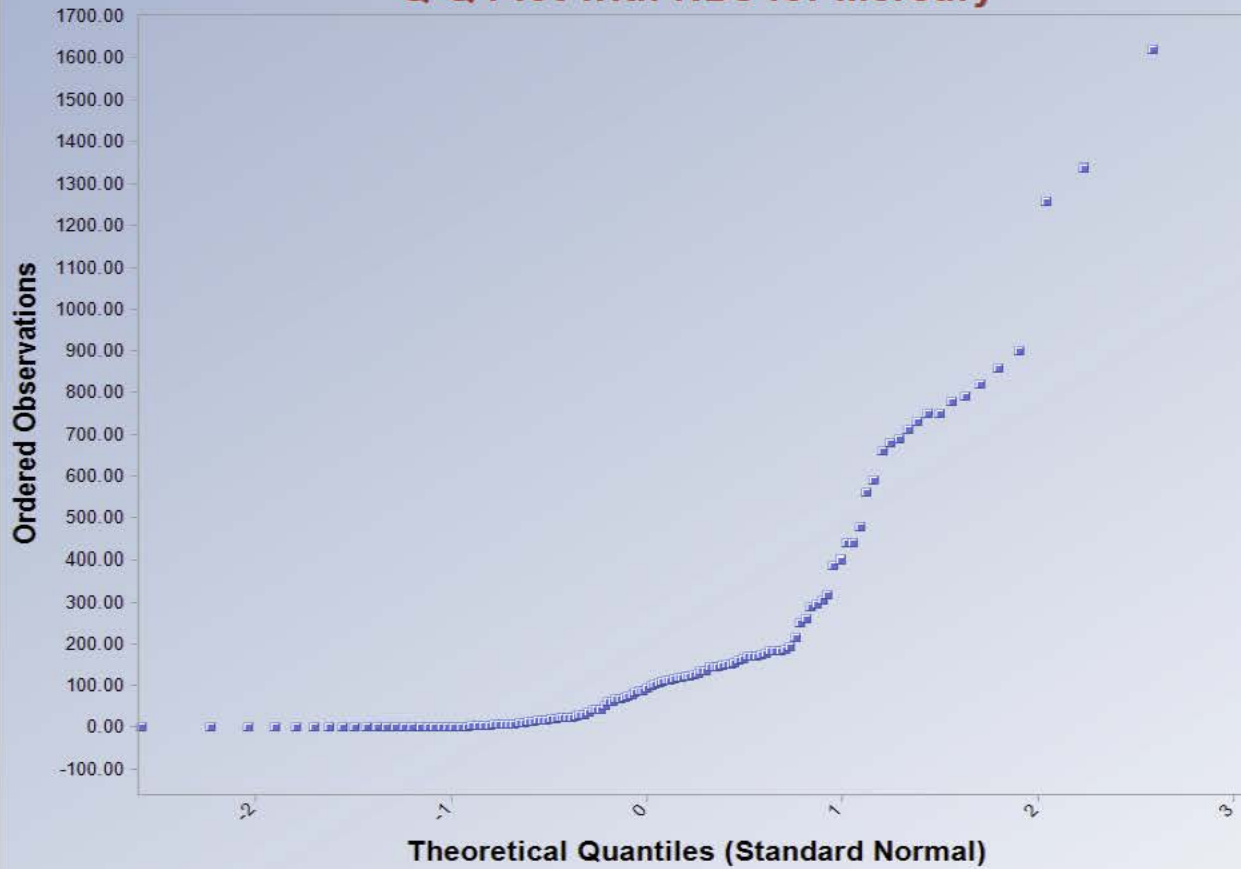
Q-Q Plot with NDs for Manganese - 1 high outlier



Manganese

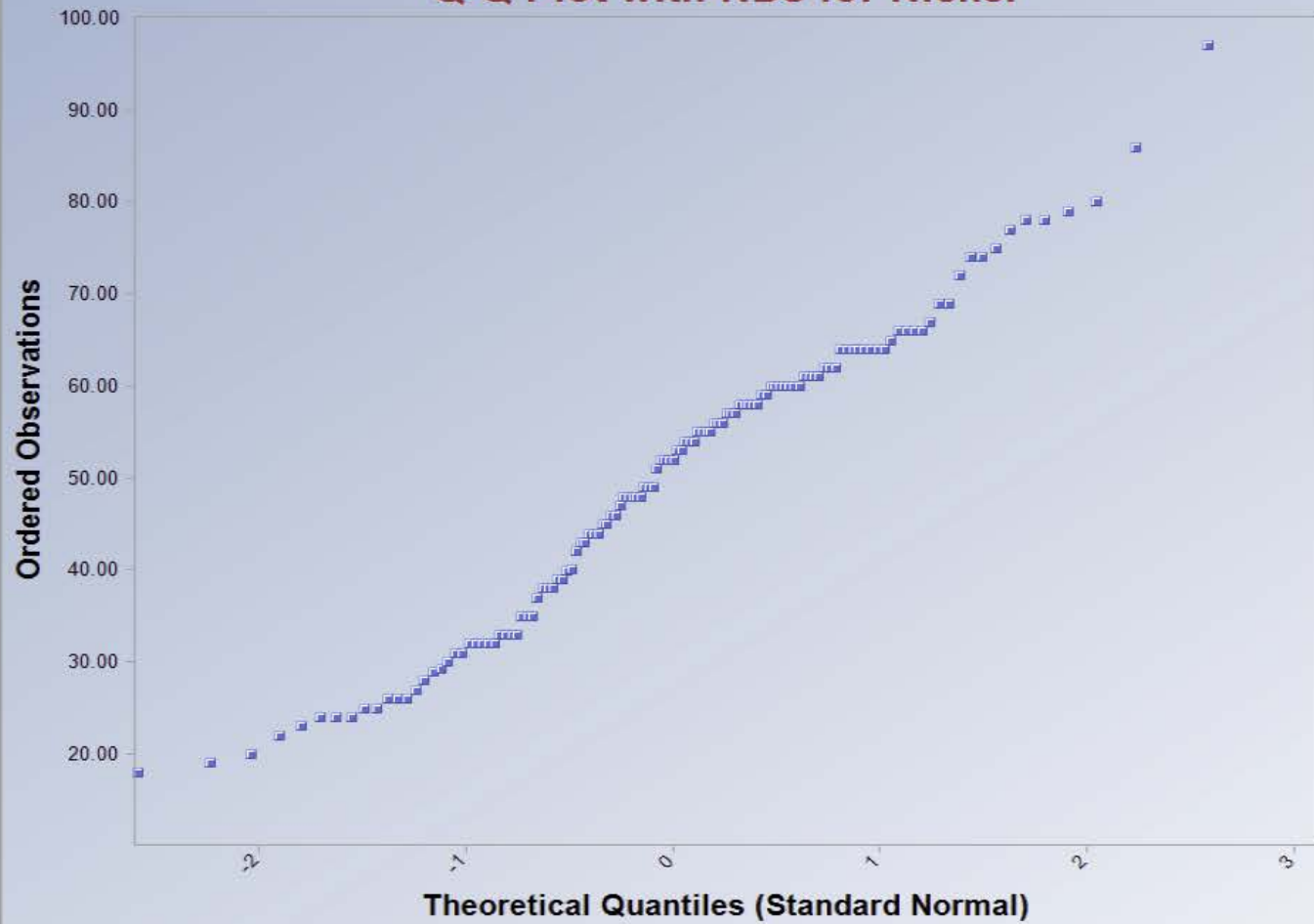
Total Number of Data = 126
Number of Non-Detects = 0
Number of Detects = 126
Mean = 668.5317
Sd = 259.3268
Slope = 257.6578
Intercept = 668.5317
Correlation, R = 0.9846

Q-Q Plot with NDs for Mercury



Mercury
Total Number of Data = 127
Number of Non-Detects = 0
Number of Detects = 127
Mean = 196.5630
Sd = 296.0628
Slope = 245.1050
Intercept = 196.5630
Correlation, R = 0.8205

Q-Q Plot with NDs for Nickel



Nickel

Total Number of Data = 127

Number of Non-Detects = 0

Number of Detects = 127

Mean = 49.9937

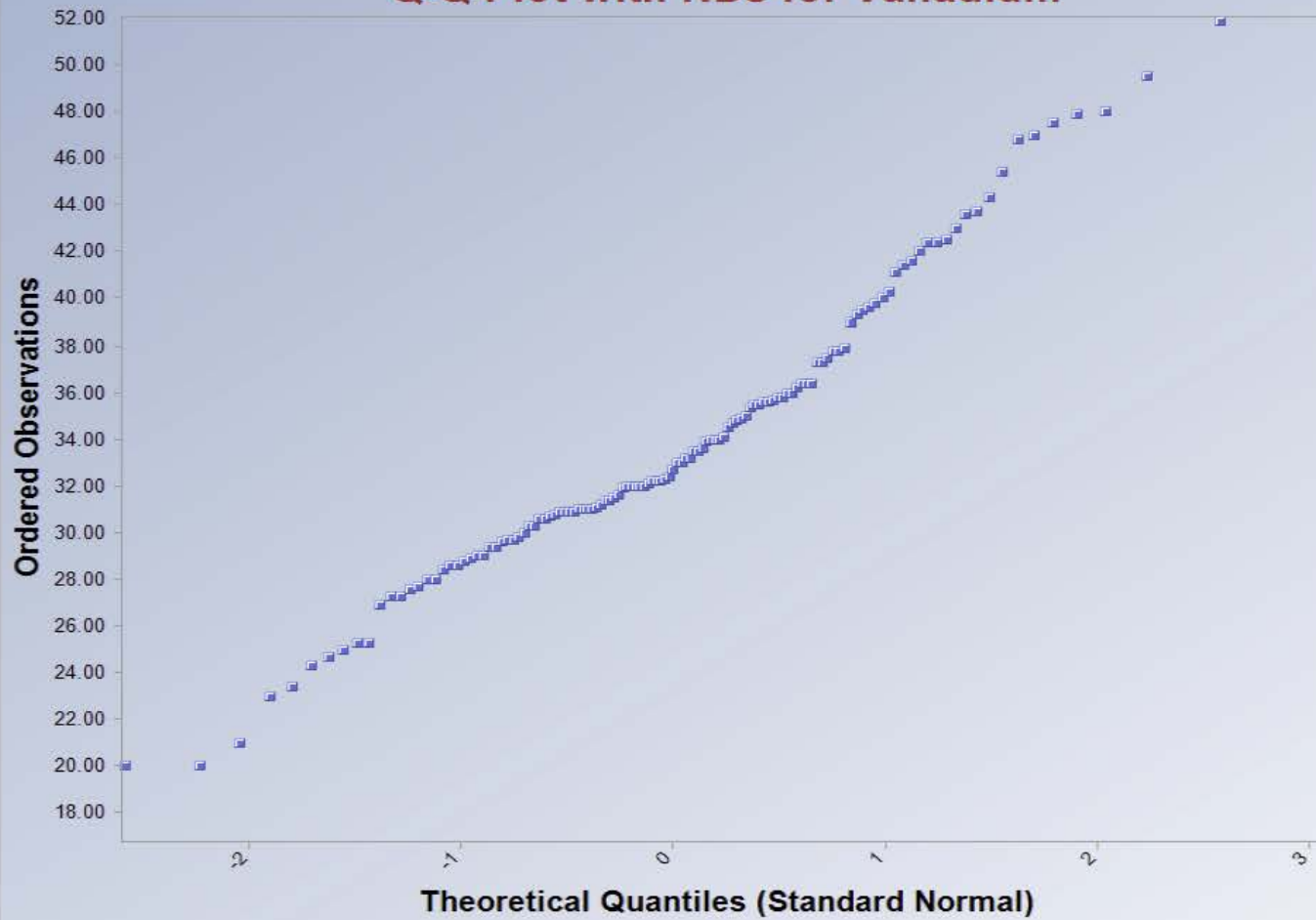
Sd = 16.2950

Slope = 16.2678

Intercept = 49.9937

Correlation, R = 0.9894

Q-Q Plot with NDs for Vanadium



Vanadium

Total Number of Data = 127

Number of Non-Detects = 0

Number of Detects = 127

Mean = 33.8984

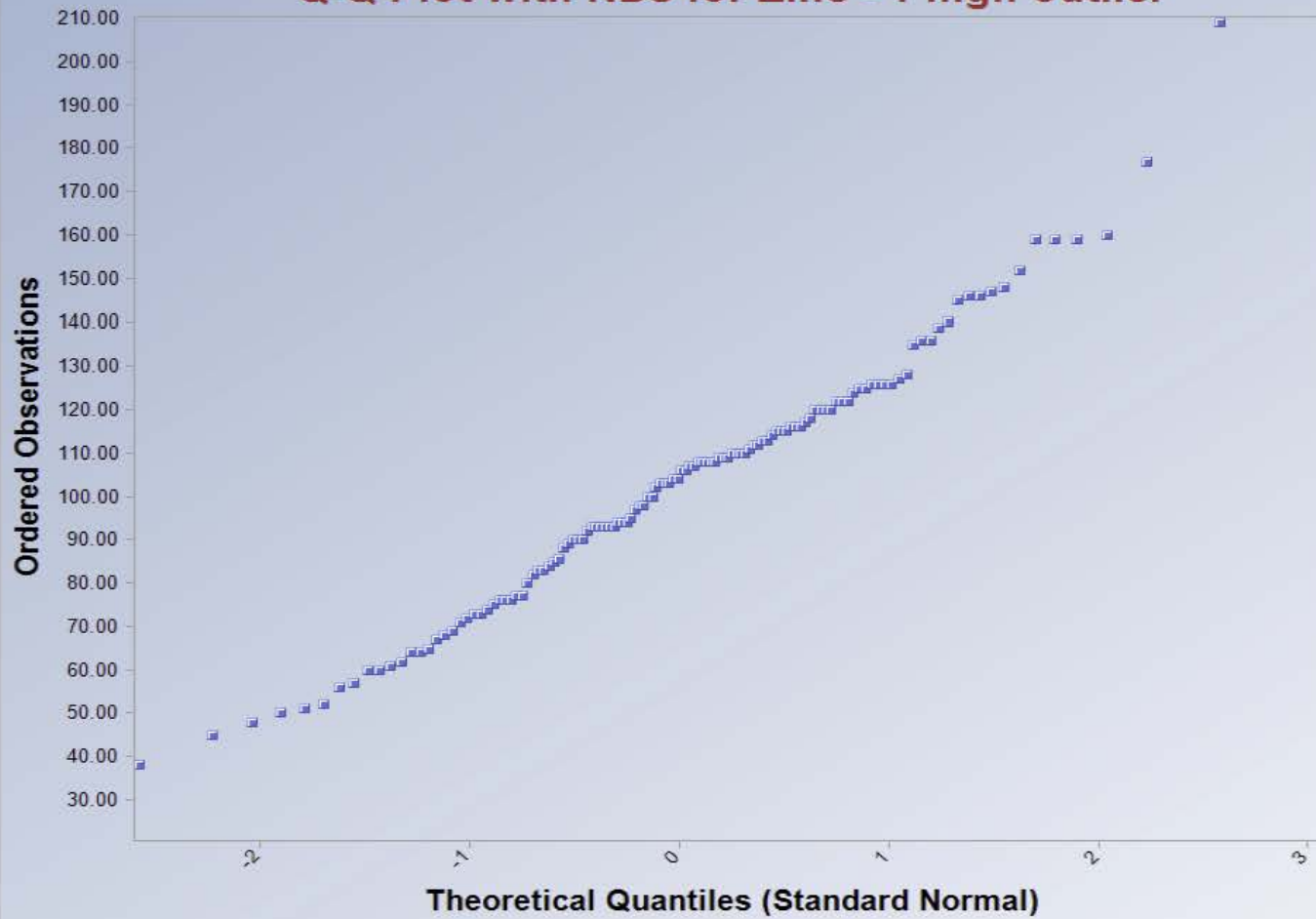
Sd = 6.1885

Slope = 6.1524

Intercept = 33.8984

Correlation, R = 0.9853

Q-Q Plot with NDs for Zinc - 1 high outlier



■ Zinc

Zinc

Total Number of Data = 126
Number of Non-Detects = 0
Number of Detects = 126
Mean = 102.6460
Sd = 29.4666
Slope = 29.4731
Intercept = 102.6460
Correlation, R = 0.9912