



TECHNICAL MEMORANDUM

To: Jeff Smith, New Mexico Copper Corporation jsmith@themacresourcesgroup.com

From: Steve Finch, Principal Hydrogeologist-Geochemist

Date: September 26, 2017

Subject: Expected selenium concentrations from supply Wells PW-1 through PW-4, Copper Flat Project, New Mexico Copper Corporation

John Shomaker & Associates, Inc. (JSAI) has evaluated the available water quality data from New Mexico Copper Corporation (NMCC) Copper Flat supply wells PW-1 through PW-4, and from other wells completed in the same Santa Fe Group aquifer.

The purpose of the data review was to re-evaluate the expected selenium concentration from supply wells PW-1 through PW-4 as a source for rapid fill post-mining reclamation of the Copper Flat Open Pit.

The Copper Flat PW supply wells yield groundwater from the Santa Fe Group aquifer. The Santa Fe Group aquifer is not known for containing dissolved selenium primarily because there is not a source of selenium. Unfortunately, most of the groundwater samples collected and analyzed for drinking water compliance used a detection limit of 0.005 milligrams per liter (mg/L). The New Mexico Water Quality Control Commission selenium concentration standard for wildlife is 0.005 mg/L, which requires a very low detection limit to determine compliance. Table 1 is a list of groundwater samples from the PW-1 through PW-4 area analyzed for selenium using a detection limit of 0.001 mg/L.

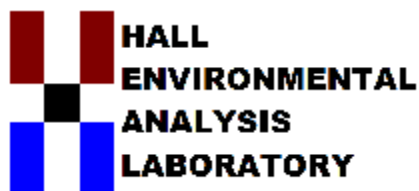
The sample labelled PW-1 and PW-3 outfall was collected from the November-December 2012 constant rate pumping test below the Greyback arroyo discharge point. The outfall sample may have been influenced by sediment and salts in Greyback arroyo and is not representative of selenium concentrations in the Santa Fe Group aquifer. All of the groundwater samples from the PW supply well area have selenium concentrations below a detection limit of one part per billion. It is justified to use a value of zero selenium for water pumped from the PW supply wells given no selenium concentrations detected, low detection limits, and no potential source of selenium.

Table 1. Summary of Selenium concentrations from PW-1, PW-3, and nearby wells

Well ID	sample date	selenium concentration (mg/L)
PW-1 & PW-3 outfall	12/10/2012	0.0009
PW-1	5/1/2012	<0.001
PW-3	5/2/2012	<0.001
MW-11	7/7/2010	<0.001
MW-11	10/4/2010	<0.001
MW-11	5/10/2011	<0.001
MW-9	7/7/2010	<0.001
MW-9	10/4/2010	<0.001
MW-9	5/11/2011	<0.001

Attachments

Laboratory reports for PW-1 and PW-3



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 14, 2012

Katie Emmer

New Mexico Copper Corp
2425 San Pedro Dr NE Ste 100
Albuquerque, New Mexico 87109
TEL: (505) 400-7925
FAX

RE: Cu Flat

OrderNo.: 1205076

Dear Katie Emmer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/2/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205076

Date Reported: 5/14/2012

CLIENT: New Mexico Copper Corp

Client Sample ID: PW-1

Project: Cu Flat

Collection Date: 5/1/2012 2:00:00 PM

Lab ID: 1205076-001

Matrix: AQUEOUS

Received Date: 5/2/2012 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	1.0	0.10		mg/L	1	5/2/2012 12:52:03 PM
Chloride	32	10		mg/L	20	5/2/2012 1:03:17 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	5/2/2012 12:52:03 PM
Nitrogen, Nitrate (As N)	0.59	0.10		mg/L	1	5/2/2012 12:52:03 PM
Sulfate	28	0.50		mg/L	1	5/2/2012 12:52:03 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Aluminum	ND	0.020		mg/L	1	5/8/2012 8:02:55 AM
Barium	0.011	0.0020		mg/L	1	5/8/2012 8:02:55 AM
Beryllium	ND	0.0020		mg/L	1	5/8/2012 8:02:55 AM
Boron	0.065	0.040		mg/L	1	5/9/2012 8:36:51 AM
Cadmium	ND	0.0020		mg/L	1	5/8/2012 8:02:55 AM
Calcium	36	1.0		mg/L	1	5/9/2012 8:36:51 AM
Chromium	ND	0.0060		mg/L	1	5/8/2012 8:02:55 AM
Cobalt	ND	0.0060		mg/L	1	5/8/2012 8:02:55 AM
Copper	ND	0.0060		mg/L	1	5/8/2012 8:02:55 AM
Iron	0.040	0.020		mg/L	1	5/9/2012 8:36:51 AM
Lead	ND	0.0050		mg/L	1	5/8/2012 8:02:55 AM
Magnesium	3.1	1.0		mg/L	1	5/9/2012 8:36:51 AM
Manganese	0.0024	0.0020		mg/L	1	5/8/2012 8:02:55 AM
Molybdenum	ND	0.0080		mg/L	1	5/8/2012 8:02:55 AM
Nickel	ND	0.010		mg/L	1	5/8/2012 8:02:55 AM
Potassium	3.4	1.0		mg/L	1	5/9/2012 8:36:51 AM
Silicon	17	0.40		mg/L	5	5/8/2012 8:06:09 AM
Silver	ND	0.0050		mg/L	1	5/8/2012 8:02:55 AM
Sodium	58	1.0		mg/L	1	5/9/2012 8:36:51 AM
Vanadium	ND	0.050		mg/L	1	5/8/2012 8:02:55 AM
Zinc	0.024	0.010		mg/L	1	5/8/2012 8:02:55 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Antimony	ND	0.0010		mg/L	1	5/8/2012 1:15:26 PM
Arsenic	0.0033	0.0010		mg/L	1	5/8/2012 1:15:26 PM
Selenium	ND	0.0010		mg/L	1	5/10/2012 2:28:58 PM
Thallium	ND	0.0010		mg/L	1	5/8/2012 1:15:26 PM
Uranium	0.0032	0.0010		mg/L	1	5/10/2012 2:28:58 PM
EPA METHOD 245.1: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	5/9/2012 11:59:45 AM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO3)	100	6.6		mg/L	1	5/9/2012
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	450	0.010		µmhos/cm	1	5/7/2012 12:31:49 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205076

Date Reported: 5/14/2012

CLIENT: New Mexico Copper Corp

Client Sample ID: PW-1

Project: Cu Flat

Collection Date: 5/1/2012 2:00:00 PM

Lab ID: 1205076-001

Matrix: AQUEOUS

Received Date: 5/2/2012 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH Analyst: JLF						
pH	8.02	1.68	H	pH units	1	5/3/2012 1:22:52 PM
SM2320B: ALKALINITY Analyst: JLF						
Bicarbonate (As CaCO3)	150	20		mg/L CaCO3	1	5/3/2012 1:22:52 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	5/3/2012 1:22:52 PM
Total Alkalinity (as CaCO3)	150	20		mg/L CaCO3	1	5/3/2012 1:22:52 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS						
Total Dissolved Solids	294	20.0		mg/L	1	5/8/2012 3:12:00 PM
SM 2540D: TSS Analyst: KS						
Suspended Solids	ND	4.0		mg/L	1	5/3/2012 5:30:00 PM

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

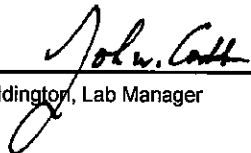
Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 120503026
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1205076
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	120503026-001	Sampling Date	5/1/2012	Date/Time Received	5/3/2012 12:24 PM
Client Sample ID	1205076-001D / PW-1	Sampling Time	2:00 PM	Extraction Date	
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	5/11/2012	CRW	EPA 335.4	

Authorized Signature



John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 72991		Units: mg/L					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Silicon	ND	0.080								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 72992		Units: mg/L					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.52	0.020	0.5000	0	105	85	115			
Barium	0.49	0.0020	0.5000	0	98.9	85	115			
Beryllium	0.52	0.0020	0.5000	0	103	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.2	85	115			
Chromium	0.49	0.0060	0.5000	0	98.5	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.9	85	115			
Copper	0.50	0.0060	0.5000	0	99.9	85	115			
Lead	0.50	0.0050	0.5000	0	99.3	85	115			
Manganese	0.48	0.0020	0.5000	0	96.9	85	115			
Molybdenum	0.49	0.0080	0.5000	0.002030	98.4	85	115			
Nickel	0.47	0.010	0.5000	0	93.9	85	115			
Silicon	2.6	0.080	2.500	0	104	85	115			
Silver	0.094	0.0050	0.1000	0	94.1	85	115			
Vanadium	0.52	0.050	0.5000	0	104	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Sample ID 1205193-005EMS	SampType: MS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: BatchQC	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 73030		Units: mg/L					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205193-005EMS		SampType: MS	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2622	RunNo: 2622						
Prep Date:			Analysis Date: 5/8/2012	SeqNo: 73030		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.54	0.020	0.5000	0	107	70	130			
Barium	0.52	0.0020	0.5000	0.02182	98.9	70	130			
Zinc	0.54	0.010	0.5000	0.03785	101	70	130			

Sample ID	1205193-005EMSD		SampType: MSD	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2622	RunNo: 2622						
Prep Date:			Analysis Date: 5/8/2012	SeqNo: 73031		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.53	0.020	0.5000	0	106	70	130	1.33	20	
Barium	0.51	0.0020	0.5000	0.02182	97.2	70	130	1.71	20	
Zinc	0.53	0.010	0.5000	0.03785	98.0	70	130	2.48	20	

Sample ID	1205193-005EMS		SampType: MS	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2670	RunNo: 2670						
Prep Date:			Analysis Date: 5/9/2012	SeqNo: 74182		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	56	1.0	50.00	4.808	102	70	130			

Sample ID	1205193-005EMSD		SampType: MSD	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2670	RunNo: 2670						
Prep Date:			Analysis Date: 5/9/2012	SeqNo: 74183		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	57	1.0	50.00	4.808	104	70	130	2.44	20	

Sample ID	1205193-005EMS		SampType: MS	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2670	RunNo: 2670						
Prep Date:			Analysis Date: 5/9/2012	SeqNo: 74185		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	4.5	0.10	2.500	2.034	99.6	70	130			
Magnesium	390	5.0	250.0	124.9	107	70	130			
Sodium	460	5.0	250.0	192.5	107	70	130			

Sample ID	1205193-005EMSD		SampType: MSD	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC		Batch ID: R2670	RunNo: 2670						
Prep Date:			Analysis Date: 5/9/2012	SeqNo: 74186		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	4.6	0.10	2.500	2.034	101	70	130	1.03	20	

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205193-005EMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2670	RunNo:	2670					
Prep Date:		Analysis Date:	5/9/2012	SeqNo:	74186	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	390	5.0	250.0	124.9	106	70	130	0.684	20	
Sodium	460	5.0	250.0	192.5	106	70	130	0.966	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2670	RunNo:	2670					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74215	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	ND	0.040								
Calcium	ND	1.0								
Iron	ND	0.020								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2670	RunNo:	2670					
Prep Date:		Analysis Date:	5/9/2012	SeqNo:	74216	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.51	0.040	0.5000	0	101	85	115			
Calcium	54	1.0	50.00	0	107	85	115			
Iron	0.47	0.020	0.5000	0.004190	93.2	85	115			
Magnesium	54	1.0	50.00	0	109	85	115			
Potassium	53	1.0	50.00	0	106	85	115			
Sodium	54	1.0	50.00	0	107	85	115			

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID: R2629		RunNo: 2629						
Prep Date:		Analysis Date: 5/8/2012		SeqNo: 73283		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.023	0.0010	0.02500	0	92.8	85	115			
Arsenic	0.023	0.0010	0.02500	0	93.1	85	115			
Thallium	0.023	0.0010	0.02500	0	92.9	85	115			

Sample ID	MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID: R2629		RunNo: 2629						
Prep Date:		Analysis Date: 5/8/2012		SeqNo: 73284		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Thallium	ND	0.0010								

Sample ID	LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID: R2708		RunNo: 2708						
Prep Date:		Analysis Date: 5/10/2012		SeqNo: 75447		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0010	0.02500	0	104	85	115			
Uranium	0.025	0.0010	0.02500	0	99.2	85	115			

Sample ID	MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID: R2708		RunNo: 2708						
Prep Date:		Analysis Date: 5/10/2012		SeqNo: 75448		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

- | | |
|--|--|
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	MB-1862	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74223	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1862	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74224	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.4	80	120			

Sample ID	1204854-004AMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74226	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.2	75	125			

Sample ID	1204854-004AMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74227	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.1	75	125	0.0957	20	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R2544		RunNo: 2544							
Prep Date:	Analysis Date: 5/2/2012		SeqNo: 70797		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R2544		RunNo: 2544							
Prep Date:	Analysis Date: 5/2/2012		SeqNo: 70798		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.47	0.10	0.5000	0	93.8	90	110			
Chloride	4.6	0.50	5.000	0	92.9	90	110			
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	92.9	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.4	90	110			
Sulfate	9.5	0.50	10.00	0	94.8	90	110			

Sample ID 1205075-001BMS	SampType: MS		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R2544		RunNo: 2544							
Prep Date:	Analysis Date: 5/2/2012		SeqNo: 70800		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.68	0.10	0.5000	0.1911	98.1	72.9	113			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	101	77.6	111			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.9	82.8	116			

Sample ID 1205075-001BMSD	SampType: MSD		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R2544		RunNo: 2544							
Prep Date:	Analysis Date: 5/2/2012		SeqNo: 70801		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.65	0.10	0.5000	0.1911	90.9	72.9	113	5.39	20	
Nitrogen, Nitrite (As N)	0.90	0.10	1.000	0	90.2	77.6	111	10.8	20	
Nitrogen, Nitrate (As N)	2.3	0.10	2.500	0	91.3	82.8	116	8.94	20	

Sample ID 1205079-001AMS	SampType: MS		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R2544		RunNo: 2544							
Prep Date:	Analysis Date: 5/2/2012		SeqNo: 70809		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	1.3	0.10	1.000	0	127	77.6	111			S
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.8	82.8	116			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205079-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70810	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	1.2	0.10	1.000	0	122	77.6	111	4.14	20	S
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.5	82.8	116	2.38	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70849	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70850	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.0	90	110			
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.0	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.3	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			

Sample ID	1205066-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70852	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.5616	101	72.9	113			
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	92.7	77.6	111			
Nitrogen, Nitrate (As N)	3.3	0.10	2.500	0.5059	111	82.8	116			
Sulfate	48	0.50	10.00	36.66	113	80.5	119			

Sample ID	1205066-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70853	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.0	0.10	0.5000	0.5616	93.8	72.9	113	3.52	20	
Nitrogen, Nitrite (As N)	0.79	0.10	1.000	0	78.5	77.6	111	16.5	20	

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205066-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2544	RunNo:	2544					
Prep Date:		Analysis Date:	5/2/2012	SeqNo:	70853	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	3.0	0.10	2.500	0.5059	98.7	82.8	116	10.2	20	
Sulfate	47	0.50	10.00	36.66	101	80.5	119	2.50	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205170-001D	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R2646	RunNo:	2646					
Prep Date:		Analysis Date:	5/7/2012	SeqNo:	73516	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	610	0.010						0	20	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205005-001A DUP	SampType:	DUP	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71363	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	3.92	1.68						0.762		H

Sample ID	1205120-001B DUP	SampType:	DUP	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71373	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.73	1.68						0.645		H

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205005-001A MS	SampType:	MS	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71221	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	62.6	110			S

Sample ID	1205005-001A MSD	SampType:	MSD	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71222	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	59.9	111	0	10	S

Sample ID	1205120-001B MS	SampType:	MS	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71242	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	360	20	80.00	299.4	70.9	62.6	110			

Sample ID	1205120-001B MSD	SampType:	MSD	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71243	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	350	20	80.00	299.4	67.1	59.9	111	0.869	10	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB-1832	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73329		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID LCS-1832	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73330		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,020	20.0	1,000	0	102	80	120			

Sample ID 1205078-002GMS	SampType: MS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: BatchQC	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73337		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	4,890	20.0	1,000	3,791	110	80	120			

Sample ID 1205078-002GMSD	SampType: MSD		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: BatchQC	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73338		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	4,930	20.0	1,000	3,791	114	80	120	0.733	20	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205076

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB-1800	SampType: MBLK		TestCode: SM 2540D: TSS							
Client ID: PBW	Batch ID: 1800		RunNo: 2570							
Prep Date: 5/3/2012	Analysis Date: 5/3/2012		SeqNo: 71656		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0								

Sample ID LCS-1800	SampType: LCS		TestCode: SM 2540D: TSS							
Client ID: LCSW	Batch ID: 1800		RunNo: 2570							
Prep Date: 5/3/2012	Analysis Date: 5/3/2012		SeqNo: 71657		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	93	4.0	96.60	0	96.3	82.9	110			

Sample ID 1205034-001BDUP	SampType: DUP		TestCode: SM 2540D: TSS							
Client ID: BatchQC	Batch ID: 1800		RunNo: 2570							
Prep Date: 5/3/2012	Analysis Date: 5/3/2012		SeqNo: 71663		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0						0	15	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: NEW MEXICO COPPER CORP Work Order Number: 1205076
 Received by/date: AT 05/02/12
 Logged By: Anne Thorne 5/2/2012 7:30:00 AM *Anne Thorne*
 Completed By: Anne Thorne 5/2/2012 *Anne Thorne*
 Reviewed By: AT 05/02/12

Chain of Custody

1. Were seals intact? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. VOA vials have zero headspace? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 1
 (2 or 12 unless noted)
 Adjusted? _____
 Checked by: AT 05/02/12

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			

Chain-of-Custody Record

Client: New Mexico Copper Corp
 Mailing Address: 2425 San Pedro Dr NE
Suite 100, ABO, NM
 Phone #: 505.400.7925
 email or Fax#: _____
 QA/QC Package: _____
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time: Need Results by May 11 via email
 Standard Rush
 Project Name: Cu Flat
 Project #: Production Well Sampling
 Project Manager: Katie Emmer

Sampler: CMC
 Ice Gas No
 Sample Temperature: 57
 Container Type and #
 Preservative Type
 HEAL No

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No
5/1/12	1400	420	PW-1	500	H2SO4	-001
				125	HNO3 + filter	-001
				500	HNO3	-001
				500	NaOH	-001

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX + MTBE + TMBs (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
8310 (PNA or PAH)	
RCA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCBs	
8260B (VOA)	
8270 (Semi-VOA)	X see enclosed list
Air Bubbles (Y or N)	

Remarks:
 Please email results to: Katie Emmer
Kemmer@themacresourcesgroup.com
 Please add hardware, cal take of s-13

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Date: 5/1/12 Time: 14:30
 Relinquished by: _____
 Date: 5/12/12 Time: 07:30
 Relinquished by: _____

Received by: _____ Date: May 2012 Time: 14:30
 Received by: _____ Date: 5/12/12 Time: 07:30

NMI Copper
May 1, 2012

Table 9-3
Analytical Parameters and Analysis Methods for Groundwater Samples

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Anions		
Fluoride	EPA Method 300.0	0.1
Chloride	EPA Method 300.0	0.1
Nitrogen, Nitrite (as N)	EPA Method 300.0	0.1
Nitrogen, Nitrate (as N)	EPA Method 300.0	0.1
Sulfate	EPA Method 300.0	0.5
Dissolved Metals		
Aluminum	EPA Method 200.7	0.02
Antimony	EPA Method 200.8	0.005
Arsenic	EPA Method 200.8	0.02
Barium	EPA Method 200.7	0.002
Beryllium	EPA Method 200.7	0.002
Boron	EPA Method 200.7	0.04
Cadmium	EPA Method 200.7	0.002
Calcium	EPA Method 200.7	0.50
Chromium	EPA Method 200.7	0.006
Cobalt	EPA Method 200.7	0.006
Copper	EPA Method 200.7	0.0003
Iron	EPA Method 200.7	0.02
Lead	EPA Method 200.7	0.005
Magnesium	EPA Method 200.7	0.50
Manganese	EPA Method 200.7	0.002
Mercury	EPA Method 7470 CVAA	0.0002
Molybdenum	EPA Method 200.7	0.008
Nickel	EPA Method 200.7	0.01
Potassium	EPA Method 200.7	1.0
Selenium	EPA Method 200.8	0.02
Silicon	EPA Method 200.7	0.08
Silver	EPA Method 200.7	0.005
Sodium	EPA Method 200.7	0.5

NM Copper
May 1, 2012

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Thallium	EPA Method 200.7	0.01
Titanium	EPA Method 200.7	0.005
Uranium	EPA Method 200.8	0.01
Vanadium	EPA Method 200.7	0.005
Zinc	EPA Method 200.7	0.005
Solids		
Total Suspended Solids (TSS)	SM 2540D	1.0 µg/L
Total Dissolved Solids (TDS)	SM 2540C	10
Alkalinity		
Alkalinity, total (as CaCO ₃)	SM 2320B	20
Carbonate	SM 2320B	20
Bicarbonate	SM 2320B	20
Other		
pH	150.1	12.45
Specific Conductance	120.1	0.01 µS/cm
Cyanide	Kelada-01	0.005

Note: NA = not applicable as sample will not be analyzed for a given parameter.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 14, 2012

Katie Emmer

New Mexico Copper Corp
2425 San Pedro Dr NE Ste 100
Albuquerque, New Mexico 87109
TEL: (505) 400-7925
FAX

RE: Cu Flat

OrderNo.: 1205153

Dear Katie Emmer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/3/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205153

Date Reported: 5/14/2012

CLIENT: New Mexico Copper Corp

Client Sample ID: PW-3

Project: Cu Flat

Collection Date: 5/2/2012 2:30:00 PM

Lab ID: 1205153-001

Matrix: AQUEOUS

Received Date: 5/3/2012 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	1.9	0.10		mg/L	1	5/3/2012 12:04:13 PM
Chloride	50	10		mg/L	20	5/3/2012 12:41:28 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	5/3/2012 12:04:13 PM
Nitrogen, Nitrate (As N)	0.70	0.10		mg/L	1	5/3/2012 12:04:13 PM
Sulfate	26	0.50		mg/L	1	5/3/2012 12:04:13 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Aluminum	ND	0.020		mg/L	1	5/8/2012 8:09:23 AM
Barium	0.0078	0.0020		mg/L	1	5/8/2012 8:09:23 AM
Beryllium	ND	0.0020		mg/L	1	5/8/2012 8:09:23 AM
Boron	0.095	0.040		mg/L	1	5/9/2012 8:40:03 AM
Cadmium	ND	0.0020		mg/L	1	5/8/2012 8:09:23 AM
Calcium	20	1.0		mg/L	1	5/9/2012 8:40:03 AM
Chromium	0.0060	0.0060		mg/L	1	5/8/2012 8:09:23 AM
Cobalt	ND	0.0060		mg/L	1	5/8/2012 8:09:23 AM
Copper	ND	0.0060		mg/L	1	5/8/2012 8:09:23 AM
Iron	0.065	0.020		mg/L	1	5/9/2012 8:40:03 AM
Lead	ND	0.0050		mg/L	1	5/8/2012 8:09:23 AM
Magnesium	1.0	1.0		mg/L	1	5/9/2012 8:40:03 AM
Manganese	0.0026	0.0020		mg/L	1	5/8/2012 8:09:23 AM
Molybdenum	ND	0.0080		mg/L	1	5/8/2012 8:09:23 AM
Nickel	ND	0.010		mg/L	1	5/8/2012 8:09:23 AM
Potassium	3.3	1.0		mg/L	1	5/9/2012 8:40:03 AM
Silicon	21	0.40		mg/L	5	5/8/2012 8:12:46 AM
Silver	ND	0.0050		mg/L	1	5/8/2012 8:09:23 AM
Sodium	81	1.0		mg/L	1	5/9/2012 8:40:03 AM
Vanadium	ND	0.050		mg/L	1	5/8/2012 8:09:23 AM
Zinc	0.021	0.010		mg/L	1	5/8/2012 8:09:23 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Antimony	ND	0.0010		mg/L	1	5/8/2012 1:19:22 PM
Arsenic	0.0074	0.0010		mg/L	1	5/8/2012 1:19:22 PM
Selenium	ND	0.0010		mg/L	1	5/10/2012 2:32:54 PM
Thallium	ND	0.0010		mg/L	1	5/8/2012 1:19:22 PM
Uranium	0.0013	0.0010		mg/L	1	5/10/2012 2:32:54 PM
EPA METHOD 245.1: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	5/9/2012 12:01:31 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO3)	53	6.6		mg/L	1	5/9/2012
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	460	0.010		µmhos/cm	1	5/7/2012 12:36:13 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205153

Date Reported: 5/14/2012

CLIENT: New Mexico Copper Corp

Client Sample ID: PW-3

Project: Cu Flat

Collection Date: 5/2/2012 2:30:00 PM

Lab ID: 1205153-001

Matrix: AQUEOUS

Received Date: 5/3/2012 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH Analyst: JLF						
pH	8.03	1.68	H	pH units	1	5/3/2012 5:14:04 PM
SM2320B: ALKALINITY Analyst: JLF						
Bicarbonate (As CaCO3)	120	20		mg/L CaCO3	1	5/3/2012 5:14:04 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	5/3/2012 5:14:04 PM
Total Alkalinity (as CaCO3)	120	20		mg/L CaCO3	1	5/3/2012 5:14:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS						
Total Dissolved Solids	303	20.0		mg/L	1	5/8/2012 3:12:00 PM
SM 2540D: TSS Analyst: KS						
Suspended Solids	ND	4.0		mg/L	1	5/4/2012 4:36:00 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

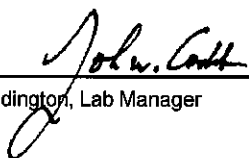
Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 120504004
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1205153
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	120504004-001	Sampling Date	5/2/2012	Date/Time Received	5/4/2012 10:18 AM
Client Sample ID	1205153-001D / PW-3	Sampling Time	2:30 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	5/8/2012	CRW	EPA 335.4	

Authorized Signature



John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 72991		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Silicon	ND	0.080								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 72992		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Aluminum	0.52	0.020	0.5000	0	105	85	115			
Barium	0.49	0.0020	0.5000	0	98.9	85	115			
Beryllium	0.52	0.0020	0.5000	0	103	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.2	85	115			
Chromium	0.49	0.0060	0.5000	0	98.5	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.9	85	115			
Copper	0.50	0.0060	0.5000	0	99.9	85	115			
Lead	0.50	0.0050	0.5000	0	99.3	85	115			
Manganese	0.48	0.0020	0.5000	0	96.9	85	115			
Molybdenum	0.49	0.0080	0.5000	0.002030	98.4	85	115			
Nickel	0.47	0.010	0.5000	0	93.9	85	115			
Silicon	2.6	0.080	2.500	0	104	85	115			
Silver	0.094	0.0050	0.1000	0	94.1	85	115			
Vanadium	0.52	0.050	0.5000	0	104	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Sample ID 1205193-005EMS	SampType: MS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: BatchQC	Batch ID: R2622		RunNo: 2622							
Prep Date:	Analysis Date: 5/8/2012		SeqNo: 73030		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205193-005EMS		SampType:	MS		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2622		RunNo:	2622				
Prep Date:			Analysis Date:	5/8/2012		SeqNo:	73030		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Aluminum	0.54	0.020	0.5000	0	107	70	130				
Barium	0.52	0.0020	0.5000	0.02182	98.9	70	130				
Zinc	0.54	0.010	0.5000	0.03785	101	70	130				

Sample ID	1205193-005EMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2622		RunNo:	2622				
Prep Date:			Analysis Date:	5/8/2012		SeqNo:	73031		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Aluminum	0.53	0.020	0.5000	0	106	70	130	1.33	20		
Barium	0.51	0.0020	0.5000	0.02182	97.2	70	130	1.71	20		
Zinc	0.53	0.010	0.5000	0.03785	98.0	70	130	2.48	20		

Sample ID	1205193-005EMS		SampType:	MS		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2670		RunNo:	2670				
Prep Date:			Analysis Date:	5/9/2012		SeqNo:	74182		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Potassium	56	1.0	50.00	4.808	102	70	130				

Sample ID	1205193-005EMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2670		RunNo:	2670				
Prep Date:			Analysis Date:	5/9/2012		SeqNo:	74183		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Potassium	57	1.0	50.00	4.808	104	70	130	2.44	20		

Sample ID	1205193-005EMS		SampType:	MS		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2670		RunNo:	2670				
Prep Date:			Analysis Date:	5/9/2012		SeqNo:	74185		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	4.5	0.10	2.500	2.034	99.6	70	130				
Magnesium	390	5.0	250.0	124.9	107	70	130				
Sodium	460	5.0	250.0	192.5	107	70	130				

Sample ID	1205193-005EMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2670		RunNo:	2670				
Prep Date:			Analysis Date:	5/9/2012		SeqNo:	74186		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	4.6	0.10	2.500	2.034	101	70	130	1.03	20		

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205193-005EMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2670	RunNo:	2670					
Prep Date:		Analysis Date:	5/9/2012	SeqNo:	74186	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	390	5.0	250.0	124.9	106	70	130	0.684	20	
Sodium	460	5.0	250.0	192.5	106	70	130	0.966	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2670	RunNo:	2670					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74215	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	ND	0.040								
Calcium	ND	1.0								
Iron	ND	0.020								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2670	RunNo:	2670					
Prep Date:		Analysis Date:	5/9/2012	SeqNo:	74216	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.51	0.040	0.5000	0	101	85	115			
Calcium	54	1.0	50.00	0	107	85	115			
Iron	0.47	0.020	0.5000	0.004190	93.2	85	115			
Magnesium	54	1.0	50.00	0	109	85	115			
Potassium	53	1.0	50.00	0	106	85	115			
Sodium	54	1.0	50.00	0	107	85	115			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID: R2629		RunNo: 2629						
Prep Date:		Analysis Date: 5/8/2012		SeqNo: 73283		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.023	0.0010	0.02500	0	92.8	85	115			
Arsenic	0.023	0.0010	0.02500	0	93.1	85	115			
Thallium	0.023	0.0010	0.02500	0	92.9	85	115			

Sample ID	MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID: R2629		RunNo: 2629						
Prep Date:		Analysis Date: 5/8/2012		SeqNo: 73284		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Thallium	ND	0.0010								

Sample ID	LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID: R2708		RunNo: 2708						
Prep Date:		Analysis Date: 5/10/2012		SeqNo: 75447		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0010	0.02500	0	104	85	115			
Uranium	0.025	0.0010	0.02500	0	99.2	85	115			

Sample ID	MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID: R2708		RunNo: 2708						
Prep Date:		Analysis Date: 5/10/2012		SeqNo: 75448		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

- | | |
|--|--|
| *X Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	MB-1862	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74223	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1862	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74224	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.4	80	120			

Sample ID	1204854-004AMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74226	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.2	75	125			

Sample ID	1204854-004AMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1862	RunNo:	2669					
Prep Date:	5/9/2012	Analysis Date:	5/9/2012	SeqNo:	74227	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.1	75	125	0.0957	20	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R2561		RunNo: 2561							
Prep Date:	Analysis Date: 5/3/2012		SeqNo: 71254		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R2561		RunNo: 2561							
Prep Date:	Analysis Date: 5/3/2012		SeqNo: 71255		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	95.5	90	110			
Chloride	4.8	0.50	5.000	0	96.2	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.8	0.50	10.00	0	97.5	90	110			

Sample ID 1205153-001AMS	SampType: MS		TestCode: EPA Method 300.0: Anions							
Client ID: PW-3	Batch ID: R2561		RunNo: 2561							
Prep Date:	Analysis Date: 5/3/2012		SeqNo: 71257		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.4	0.10	0.5000	1.941	84.8	72.9	113			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.5	77.6	111			
Nitrogen, Nitrate (As N)	3.3	0.10	2.500	0.7031	102	82.8	116			
Sulfate	37	0.50	10.00	26.34	106	80.5	119			

Sample ID 1205153-001AMSD	SampType: MSD		TestCode: EPA Method 300.0: Anions							
Client ID: PW-3	Batch ID: R2561		RunNo: 2561							
Prep Date:	Analysis Date: 5/3/2012		SeqNo: 71258		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.4	0.10	0.5000	1.941	84.1	72.9	113	0.155	20	
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	92.4	77.6	111	4.30	20	
Nitrogen, Nitrate (As N)	3.1	0.10	2.500	0.7031	97.9	82.8	116	3.36	20	
Sulfate	37	0.50	10.00	26.34	102	80.5	119	1.04	20	

Sample ID 1205167-005AMS	SampType: MS		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R2561		RunNo: 2561							
Prep Date:	Analysis Date: 5/3/2012		SeqNo: 71285		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205167-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71285	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.4	77.6	111			

Sample ID	1205167-005AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71286	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.4	77.6	111	0.0232	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/4/2012	SeqNo:	71314	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/4/2012	SeqNo:	71315	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Chloride	4.7	0.50	5.000	0	93.9	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.0	90	110			
Sulfate	9.5	0.50	10.00	0	94.7	90	110			

Sample ID	1205174-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/4/2012	SeqNo:	71317	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9876	91.1	72.9	113			
Chloride	14	0.50	5.000	8.329	103	78	107			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	95.8	77.6	111			
Nitrogen, Nitrate (As N)	6.0	0.10	2.500	3.372	106	82.8	116			
Sulfate	45	0.50	10.00	35.20	102	80.5	119			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205174-001BMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2561	RunNo:	2561					
Prep Date:		Analysis Date:	5/4/2012	SeqNo:	71318	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9876	90.1	72.9	113	0.330	20	
Chloride	13	0.50	5.000	8.329	103	78	107	0.0337	20	
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	95.7	77.6	111	0.0653	20	
Nitrogen, Nitrate (As N)	6.0	0.10	2.500	3.372	106	82.8	116	0.00611	20	
Sulfate	45	0.50	10.00	35.20	101	80.5	119	0.199	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205170-001D	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R2646	RunNo:	2646					
Prep Date:		Analysis Date:	5/7/2012	SeqNo:	73516	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	610	0.010						0	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205005-001A DUP	SampType:	DUP	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71363	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	3.92	1.68						0.762		H

Sample ID	1205120-001B DUP	SampType:	DUP	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71373	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.73	1.68						0.645		H

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	1205005-001A MS	SampType:	MS	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71221	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	62.6	110			S

Sample ID	1205005-001A MSD	SampType:	MSD	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71222	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	59.9	111	0	10	S

Sample ID	1205120-001B MS	SampType:	MS	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71242	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	360	20	80.00	299.4	70.9	62.6	110			

Sample ID	1205120-001B MSD	SampType:	MSD	TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC	Batch ID:	R2560	RunNo:	2560					
Prep Date:		Analysis Date:	5/3/2012	SeqNo:	71243	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	350	20	80.00	299.4	67.1	59.9	111	0.869	10	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID MB-1832	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73329		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID LCS-1832	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73330		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,020	20.0	1,000	0	102	80	120			

Sample ID 1205078-002GMS	SampType: MS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: BatchQC	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73337		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	4,890	20.0	1,000	3,791	110	80	120			

Sample ID 1205078-002GMSD	SampType: MSD		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: BatchQC	Batch ID: 1832		RunNo: 2634							
Prep Date: 5/7/2012	Analysis Date: 5/8/2012		SeqNo: 73338		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	4,930	20.0	1,000	3,791	114	80	120	0.733	20	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205153

14-May-12

Client: New Mexico Copper Corp

Project: Cu Flat

Sample ID	MB-1808	SampType:	MBLK	TestCode:	SM 2540D: TSS					
Client ID:	PBW	Batch ID:	1808	RunNo:	2606					
Prep Date:	5/4/2012	Analysis Date:	5/4/2012	SeqNo:	72551	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0								

Sample ID	LCS-1808	SampType:	LCS	TestCode:	SM 2540D: TSS					
Client ID:	LCSW	Batch ID:	1808	RunNo:	2606					
Prep Date:	5/4/2012	Analysis Date:	5/4/2012	SeqNo:	72552	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	94	4.0	96.60	0	97.3	82.9	110			

Sample ID	1205122-001BDUP	SampType:	DUP	TestCode:	SM 2540D: TSS					
Client ID:	BatchQC	Batch ID:	1808	RunNo:	2606					
Prep Date:	5/4/2012	Analysis Date:	5/4/2012	SeqNo:	72556	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0						0	15	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87106
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **NEW MEXICO COPPER CORP** Work Order Number: 1205153
 Received by/date: AT 05/03/12
 Logged By: **Anne Thorne** 5/3/2012 8:35:00 AM *Anne Thorne*
 Completed By: **Anne Thorne** 5/3/2012 *Anne Thorne*
 Reviewed By: AT 05/03/12

Chain of Custody

1. Were seals intact? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. VOA vials have zero headspace? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 3
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: AT 05/03/12

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			

Chain-of-Custody Record

Client: NMCC

Mailing Address: 2425 San Pedro NE Ste 100

Albuquerque, NM

Phone #: 505-794-1925

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time: Need Results May 11
 Standard Rush

Project Name: Cu Flat

Project #: Production Well Sampling

Project Manager: Kate Farmer

Sampler: CMC
 Office: Yes No
 Sample Temperature: 11.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5-2-12	14:30	H ₂ O	PW-3	500	none	205153
				125	H ₂ SO ₄	
				125	HNO ₃ filter	
				500	HNO ₃	
				500	NaOH	

Date: 5-8-12 Time: 8:35
 Relinquished by: [Signature]

Date: _____ Time: _____
 Relinquished by: _____

Received by: [Signature] Date: 5/10/12 Time: 13:35

Received by: _____ Date: _____ Time: _____

Analysis Request	
BTEX + MTBE + TMBs (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
8310 (PNA or PAH)	
RCRA 8 Metals	
Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	

Remarks: Please add Hardware per Andy of Lab
Need Results by May 11 5/3
Please email to: Kemmer@the-mac-resource-group.com



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

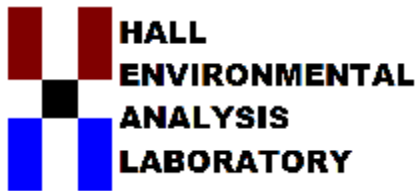
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Table 9-3
Analytical Parameters and Analysis Methods for Groundwater Samples

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Anions		
Fluoride	EPA Method 300.0	0.1
Chloride	EPA Method 300.0	0.1
Nitrogen, Nitrite (as N)	EPA Method 300.0	0.1
Nitrogen, Nitrate (as N)	EPA Method 300.0	0.1
Sulfate	EPA Method 300.0	0.5
Dissolved Metals		
Aluminum	EPA Method 200.7	0.02
Antimony	EPA Method 200.8	0.005
Arsenic	EPA Method 200.8	0.02
Barium	EPA Method 200.7	0.002
Beryllium	EPA Method 200.7	0.002
Boron	EPA Method 200.7	0.04
Cadmium	EPA Method 200.7	0.002
Calcium	EPA Method 200.7	0.50
Chromium	EPA Method 200.7	0.006
Cobalt	EPA Method 200.7	0.006
Copper	EPA Method 200.7	0.0003
Iron	EPA Method 200.7	0.02
Lead	EPA Method 200.7	0.005
Magnesium	EPA Method 200.7	0.50
Manganese	EPA Method 200.7	0.002
Mercury	EPA Method 7470 CVAA	0.0002
Molybdenum	EPA Method 200.7	0.008
Nickel	EPA Method 200.7	0.01
Potassium	EPA Method 200.7	1.0
Selenium	EPA Method 200.8	0.02
Silicon	EPA Method 200.7	0.08
Silver	EPA Method 200.7	0.005
Sodium	EPA Method 200.7	0.5

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Thallium	EPA Method 200.7	0.01
Titanium	EPA Method 200.7	0.005
Uranium	EPA Method 200.8	0.01
Vanadium	EPA Method 200.7	0.005
Zinc	EPA Method 200.7	0.005
Solids		
Total Suspended Solids (TSS)	SM 2540D	1.0 µg/L
Total Dissolved Solids (TDS)	SM 2540C	10
Alkalinity		
Alkalinity, total (as CaCO ₃)	SM 2320B	20
Carbonate	SM 2320B	20
Bicarbonate	SM 2320B	20
Other		
pH	150.1	12.45
Specific Conductance	120.1	0.01 µS/cm
Cyanide	Kelada-01	0.005

Note: NA = not applicable as sample will not be analyzed for a given parameter.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 08, 2013

Katie Emmer

New Mexico Copper Corp
2424 Louisiana Blvd NE Ste 301
Albuquerque, New Mexico 87110
TEL: (505) 400-7925
FAX

RE: NMCC PWs

OrderNo.: 1212427

Dear Katie Emmer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: New Mexico Copper Corp

Client Sample ID: AT-Outfall

Project: NMCC PWs

Collection Date: 12/10/2012 3:15:00 PM

Lab ID: 1212427-001

Matrix: AQUEOUS

Received Date: 12/11/2012 8:42:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS							Analyst: JRR
Fluoride	0.78	0.02000	0.10		mg/L	1	12/11/2012 7:08:58 PM
Chloride	25	1.32400	10		mg/L	20	12/11/2012 7:46:12 PM
Nitrogen, Nitrite (As N)	ND	0.01480	0.10		mg/L	1	12/11/2012 7:08:58 PM
Nitrogen, Nitrate (As N)	0.49	0.02260	0.10		mg/L	1	12/11/2012 7:08:58 PM
Sulfate	18	0.23330	0.50		mg/L	1	12/11/2012 7:08:58 PM
EPA METHOD 200.7: DISSOLVED METALS							Analyst: JLF
Aluminum	ND	0.01091	0.020		mg/L	1	12/27/2012 5:46:08 PM
Barium	0.013	0.00031	0.0020		mg/L	1	12/27/2012 5:46:08 PM
Beryllium	ND	0.00050	0.0020		mg/L	1	12/27/2012 5:46:08 PM
Boron	0.071	0.00558	0.040		mg/L	1	12/31/2012 10:25:18 AM
Calcium	26	0.02588	1.0		mg/L	1	12/27/2012 5:46:08 PM
Cobalt	0.0020	0.00044	0.0060	J	mg/L	1	12/27/2012 5:46:08 PM
Iron	0.081	0.00192	0.020		mg/L	1	12/27/2012 5:46:08 PM
Magnesium	2.2	0.01291	1.0		mg/L	1	12/27/2012 5:46:08 PM
Manganese	0.17	0.00062	0.0020	*	mg/L	1	12/27/2012 5:46:08 PM
Molybdenum	0.0020	0.00189	0.0080	J	mg/L	1	12/27/2012 5:46:08 PM
Potassium	2.9	0.48088	1.0		mg/L	1	12/31/2012 10:25:18 AM
Silicon	16	0.08245	0.40		mg/L	5	12/27/2012 5:49:54 PM
Silver	ND	0.00106	0.0050		mg/L	1	12/27/2012 5:46:08 PM
Sodium	52	0.04456	1.0		mg/L	1	12/27/2012 5:46:08 PM
Vanadium	0.0080	0.00278	0.050	J	mg/L	1	12/27/2012 5:46:08 PM
Zinc	0.020	0.00062	0.010		mg/L	1	12/27/2012 5:46:08 PM
EPA 200.8: DISSOLVED METALS							Analyst: DBD
Antimony	0.00017	0.00002	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Arsenic	0.0020	0.00013	0.0010		mg/L	1	12/19/2012 2:17:12 PM
Cadmium	ND	0.00001	0.0010		mg/L	1	12/19/2012 2:17:12 PM
Chromium	0.0025	0.00013	0.0010		mg/L	1	12/19/2012 2:17:12 PM
Copper	0.00033	0.00016	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Lead	0.000024	0.00002	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Nickel	0.00022	0.00007	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Selenium	0.00090	0.00055	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Thallium	0.000012	0.00001	0.0010	J	mg/L	1	12/19/2012 2:17:12 PM
Uranium	0.0025	0.00001	0.0010		mg/L	1	12/19/2012 2:17:12 PM
EPA METHOD 245.1: MERCURY							Analyst: TMG
Mercury	ND	0.00002	0.00020		mg/L	1	12/13/2012 12:50:58 PM
EPA METHOD 624 - VOCs							Analyst: RAA
Benzene	ND	0.39862	5.0		µg/L	1	12/20/2012 10:26:00 AM
Bromodichloromethane	ND	0.33993	5.0		µg/L	1	12/20/2012 10:26:00 AM
Bromoform	ND	0.43176	5.0		µg/L	1	12/20/2012 10:26:00 AM
Bromomethane	ND	0.55803	5.0		µg/L	1	12/20/2012 10:26:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: New Mexico Copper Corp

Client Sample ID: AT-Outfall

Project: NMCC PWs

Collection Date: 12/10/2012 3:15:00 PM

Lab ID: 1212427-001

Matrix: AQUEOUS

Received Date: 12/11/2012 8:42:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 624 - VOCS							Analyst: RAA
Carbon tetrachloride	ND	0.36577	5.0		µg/L	1	12/20/2012 10:26:00 AM
Chlorobenzene	ND	0.38965	5.0		µg/L	1	12/20/2012 10:26:00 AM
Chloroethane	ND	0.44241	5.0		µg/L	1	12/20/2012 10:26:00 AM
2-Chloroethyl-vinyl ether	ND	0.77679	5.0		µg/L	1	12/20/2012 10:26:00 AM
Chloroform	ND	0.35371	5.0		µg/L	1	12/20/2012 10:26:00 AM
Chloromethane	ND	0.65154	5.0		µg/L	1	12/20/2012 10:26:00 AM
cis-1,2-DCE	1.2	0.34388	5.0	J	µg/L	1	12/20/2012 10:26:00 AM
cis-1,3-Dichloropropene	ND	0.56594	5.0		µg/L	1	12/20/2012 10:26:00 AM
Dibromochloromethane	ND	0.32160	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,2-Dichlorobenzene	ND	0.46552	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,3-Dichlorobenzene	ND	0.47251	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,4-Dichlorobenzene	ND	0.42788	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,1-Dichloroethane	ND	0.29775	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,2-Dichloroethane	ND	0.28693	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,1-Dichloroethene	ND	0.38066	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,2-Dichloropropane	ND	0.38741	5.0		µg/L	1	12/20/2012 10:26:00 AM
Ethylbenzene	ND	0.38153	5.0		µg/L	1	12/20/2012 10:26:00 AM
Methylene chloride	ND	0.35142	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,1,2,2-Tetrachloroethane	ND	0.61641	5.0		µg/L	1	12/20/2012 10:26:00 AM
Tetrachloroethene	ND	0.47406	5.0		µg/L	1	12/20/2012 10:26:00 AM
Toluene	ND	0.47309	5.0		µg/L	1	12/20/2012 10:26:00 AM
Total Xylenes	ND	0.53121	15		µg/L	1	12/20/2012 10:26:00 AM
trans-1,2-Dichloroethene	ND	0.32318	5.0		µg/L	1	12/20/2012 10:26:00 AM
trans-1,3-Dichloropropene	ND	0.64292	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,1,1-Trichloroethane	ND	0.38417	5.0		µg/L	1	12/20/2012 10:26:00 AM
1,1,2-Trichloroethane	ND	0.53935	5.0		µg/L	1	12/20/2012 10:26:00 AM
Trichloroethene	ND	0.30054	5.0		µg/L	1	12/20/2012 10:26:00 AM
Trichlorofluoromethane	ND	0.35446	5.0		µg/L	1	12/20/2012 10:26:00 AM
Vinyl chloride	ND	0.47747	5.0		µg/L	1	12/20/2012 10:26:00 AM
Acrolein	ND	50.00000	50		µg/L	1	12/19/2012 5:46:38 PM
Acrylonitrile	ND	50.00000	50		µg/L	1	12/19/2012 5:46:38 PM
Surr: 1,2-Dichloroethane-d4	93.1		70-130		%REC	1	12/20/2012 10:26:00 AM
Surr: 4-Bromofluorobenzene	101		70-130		%REC	1	12/20/2012 10:26:00 AM
Surr: Dibromofluoromethane	86.9		70-130		%REC	1	12/20/2012 10:26:00 AM
Surr: Toluene-d8	101		70-130		%REC	1	12/20/2012 10:26:00 AM

SM 5310B: TOC

Analyst: LRW

Organic Carbon, Total 0.23 0.22710 1.0 J mg/L 1 12/13/2012 12:43:10 PM

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: JML

Conductivity 400 0.01000 0.010 µmhos/c 1 12/13/2012 12:39:34 PM

SM4500-H+B: PH

Analyst: JML

Qualifiers:							
*	Value exceeds Maximum Contaminant Level.			B	Analyte detected in the associated Method Blank		
E	Value above quantitation range			H	Holding times for preparation or analysis exceeded		
J	Analyte detected below quantitation limits			ND	Not Detected at the Reporting Limit		
P	Sample pH greater than 2			R	RPD outside accepted recovery limits		
RL	Reporting Detection Limit			S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** New Mexico Copper Corp**Client Sample ID:** AT-Outfall**Project:** NMCC PWs**Collection Date:** 12/10/2012 3:15:00 PM**Lab ID:** 1212427-001**Matrix:** AQUEOUS**Received Date:** 12/11/2012 8:42:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH							Analyst: JML
pH	7.89	0.10000	1.68	H	pH units	1	12/13/2012 12:39:34 PM
SM2320B: ALKALINITY							Analyst: JML
Bicarbonate (As CaCO ₃)	140	5.00000	20		mg/L Ca	1	12/13/2012 12:39:34 PM
Carbonate (As CaCO ₃)	ND	2.00000	2.0		mg/L Ca	1	12/13/2012 12:39:34 PM
Total Alkalinity (as CaCO ₃)	140	5.00000	20		mg/L Ca	1	12/13/2012 12:39:34 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	249	10.05560	20.0		mg/L	1	12/18/2012 3:49:00 PM
SM 2540D: TSS							Analyst: JML
Suspended Solids	ND	1.53350	4.0		mg/L	1	12/13/2012 11:41:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121213032
Project Name: 1212427

Analytical Results Report

Sample Number 121213032-001 **Sampling Date** 12/10/2012 **Date/Time Received** 12/13/2012 12:00 PM
Client Sample ID 1212427-001B / AT-OUTFALL **Sampling Time** 3:15 PM **Extraction Date** 12/17/2012
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
1,2-Diphenyl hydrazine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
1-Methylnaphthalene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,3,4,6-Tetrachlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,3,5,6-Tetrachlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4,5-Trichlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4,6-Trichlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4-Dichlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4-Dimethylphenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4-Dinitrophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,4-Dinitrotoluene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2,6-Dinitrotoluene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Chloronaphthalene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Chlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Methylnaphthalene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Methylphenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Nitroaniline	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
2-Nitrophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
3,3'-Dichlorobenzidine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

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Batch #: 121213032
Project Name: 1212427

Analytical Results Report

Sample Number 121213032-001 **Sampling Date** 12/10/2012 **Date/Time Received** 12/13/2012 12:00 PM
Client Sample ID 1212427-001B / AT-OUTFALL **Sampling Time** 3:15 PM **Extraction Date** 12/17/2012
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
3+4-Methylphenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
3-Nitroaniline	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4,6-Dinitro-2-methylphenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Bromophenyl-phenylether	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Chloro-3-methylphenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Chloroaniline	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Chlorophenyl-phenylether	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Nitroaniline	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
4-Nitrophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Acenaphthene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Acenaphthylene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Aniline	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Anthracene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzidine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzo(ghi)perylene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzo[a]anthracene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzo[a]pyrene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzo[b]fluoranthene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzo[k]fluoranthene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Benzyl alcohol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
bis(2-Chloroethoxy)methane	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
bis(2-Chloroethyl)ether	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
bis(2-chloroisopropyl)ether	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT: CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Analytical Results Report

Sample Number 121213032-001 **Sampling Date** 12/10/2012 **Date/Time Received** 12/13/2012 12:00 PM
Client Sample ID 1212427-001B / AT-OUTFALL **Sampling Time** 3:15 PM **Extraction Date** 12/17/2012
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Butylbenzylphthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Carbazole	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Chrysene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Dibenz[a,h]anthracene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Dibenzofuran	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Diethylphthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Dimethylphthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Di-n-butylphthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Di-n-octylphthalate	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Fluoranthene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Fluorene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Hexachlorobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Hexachlorobutadiene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Hexachlorocyclopentadiene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Hexachloroethane	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Isophorone	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Naphthalene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Nitrobenzene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Nitrosodimethylamine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
n-Nitroso-di-n-propylamine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
n-Nitrosodiphenylamine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT: CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Attn: ANDY FREEMAN

Batch #: 121213032
Project Name: 1212427

Analytical Results Report

Sample Number	121213032-001	Sampling Date	12/10/2012	Date/Time Received	12/13/2012 12:00 PM
Client Sample ID	1212427-001B / AT-OUTFALL	Sampling Time	3:15 PM	Extraction Date	12/17/2012
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Pentachlorophenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Phenanthrene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Phenol	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Pyrene	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	
Pyridine	ND	ug/L	0.5	12/20/2012	EMP	EPA 625	

Surrogate Data

Sample Number	121213032-001		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 625	84.3	53-122
2-Fluorobiphenyl	EPA 625	96.3	12-116
2-Fluorophenol	EPA 625	73.0	10-139
Nitrobenzene-d5	EPA 625	94.8	54-118
Phenol-d5	EPA 625	83.9	28-154
Terphenyl-d14	EPA 625	99.8	52-144

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Batch #: 121213032
Project Name: 1212427

Analytical Results Report

Sample Number 121213032-002 **Sampling Date** 12/10/2012 **Date/Time Received** 12/13/2012 12:00 PM
Client Sample ID 1212427-001C / AT-OUTFALL **Sampling Time** 3:15 PM **Extraction Date** 12/17/2012
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4,4-DDD	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
4,4-DDE	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
4,4-DDT	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Aldrin	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
alpha-BHC	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	12/17/2012	MAH	EPA 608	
beta-BHC	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Chlordane	ND	ug/L	0.1	12/17/2012	MAH	EPA 608	
delta-BHC	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Dieldrin	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endosulfan I	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endosulfan II	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endosulfan sulfate	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endrin	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endrin aldehyde	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Endrin ketone	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
gamma-BHC (Lindane)	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121213032
Project Name: 1212427

Analytical Results Report

Sample Number	121213032-002	Sampling Date	12/10/2012	Date/Time Received	12/13/2012 12:00 PM
Client Sample ID	1212427-001C / AT-OUTFALL	Sampling Time	3:15 PM	Extraction Date	12/17/2012
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Heptachlor	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Heptachlor epoxide	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Methoxychlor	ND	ug/L	0.01	12/17/2012	MAH	EPA 608	
Toxaphene	ND	ug/L	0.1	12/17/2012	MAH	EPA 608	

Surrogate Data

Sample Number	121213032-002			
Surrogate Standard		Method	Percent Recovery	Control Limits
DCB		EPA 608	75.0	30-130

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA-ID00013; AZ:0701; CO-ID00013; FL(NELAP):E87893; ID-ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

Anatek Labs, Inc.

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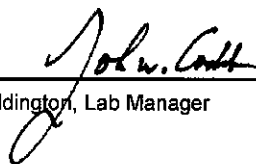
Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 121213032
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1212427
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 121213032-003 **Sampling Date** 12/10/2012 **Date/Time Received** 12/13/2012 12:00 P
Client Sample ID 1212427-001G / AT-OUTFALL **Sampling Time** 3:15 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	12/21/2012	CRW	EPA 335.4	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Method 1613B Sample Analysis Results

Client - Hall Environmental

Client's Sample ID	1212427-001F AT-Outfall		
Lab Sample ID	10215127001		
Filename	U121218B_14		
Injected By	SMT		
Total Amount Extracted	933 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	12/10/2012 15:00
ICAL ID	U121116	Received	12/12/2012 09:50
CCal Filename(s)	U121218B_01	Extracted	12/14/2012 13:45
Method Blank ID	BLANK-34901	Analyzed	12/19/2012 01:21

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	95
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	92

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit.

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Report No.....10215127_1613B

Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-34901	Matrix	Water
Filename	F121218A_10	Dilution	NA
Total Amount Extracted	994 mL	Extracted	12/14/2012 13:45
ICAL ID	F121120	Analyzed	12/18/2012 15:08
CCal Filename(s)	F121218A_01	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	87
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	87

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

REPORT OF LABORATORY ANALYSIS

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Report No.....10215127_1613B

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-34902	Matrix	Water
Filename	F121218A_02	Dilution	NA
Total Amount Extracted	1040 mL	Extracted	12/14/2012 13:45
ICAL ID	F121120	Analyzed	12/18/2012 09:11
CCal Filename	F121218A_01	Injected By	SMT
Method Blank ID	BLANK-34901		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	8.8	7.3	14.6	88
2,3,7,8-TCDD-37Cl4	10	9.3	3.7	15.8	93
2,3,7,8-TCDD-13C	100	99	25.0	141.0	99

Cs = Concentration Spiked (ng/mL)
 Cr = Concentration Recovered (ng/mL)
 Rec. = Recovery (Expressed as Percent)
 Control Limit Reference: Method 1613, Table 6, 10/94 Revision
 R = Recovery outside of control limits
 Nn = Value obtained from additional analysis
 * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10215127_1613B

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-34903	Matrix	Water
Filename	F121218A_03	Dilution	NA
Total Amount Extracted	1010 mL	Extracted	12/14/2012 13:45
ICAL ID	F121120	Analyzed	12/18/2012 09:55
CCal Filename	F121218A_01	Injected By	SMT
Method Blank ID	BLANK-34901		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.1	7.3	14.6	91
2,3,7,8-TCDD-37Cl4	10	9.1	3.7	15.8	91
2,3,7,8-TCDD-13C	100	95	25.0	141.0	95

Cs = Concentration Spiked (ng/mL)
 Cr = Concentration Recovered (ng/mL)
 Rec. = Recovery (Expressed as Percent)
 Control Limit Reference: Method 1613, Table 6, 10/94 Revision
 R = Recovery outside of control limits
 Nn = Value obtained from additional analysis
 * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10215127_1613B

Method 1613B**Spike Recovery Relative Percent Difference (RPD) Results**

Client Hall Environmental

Spike 1 ID LCS-34902

Spike 2 ID LCSD-34903

Spike 1 Filename F121218A_02

Spike 2 Filename F121218A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	88	91	3.4

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSISThis report shall not be reproduced, except in full,
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Report No.....10215127_1613B

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R7746		RunNo: 7746							
Prep Date:	Analysis Date: 12/27/2012		SeqNo: 225011		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Calcium	ND	1.0								
Cobalt	ND	0.0060								
Iron	0.0020	0.020								J
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	0.0021	0.0080								J
Silicon	ND	0.080								
Silver	ND	0.0050								
Sodium	ND	1.0								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R7746		RunNo: 7746							
Prep Date:	Analysis Date: 12/27/2012		SeqNo: 225012		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.50	0.020	0.5000	0	99.6	85	115			
Barium	0.49	0.0020	0.5000	0	99.0	85	115			
Beryllium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	49	1.0	50.00	0	98.8	85	115			
Cobalt	0.49	0.0060	0.5000	0	97.2	85	115			
Iron	0.50	0.020	0.5000	0.002050	98.8	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Manganese	0.49	0.0020	0.5000	0	97.2	85	115			
Molybdenum	0.51	0.0080	0.5000	0.002090	102	85	115			
Silicon	2.6	0.080	2.500	0	104	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			
Sodium	50	1.0	50.00	0	99.5	85	115			
Vanadium	0.51	0.050	0.5000	0	103	85	115			
Zinc	0.49	0.010	0.5000	0	98.9	85	115			

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R7786		RunNo: 7786							
Prep Date:	Analysis Date: 12/31/2012		SeqNo: 226434		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	ND	0.040								
Potassium	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R7786		RunNo: 7786							
Prep Date:	Analysis Date: 12/31/2012		SeqNo: 226435		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	ND	0.040								
Potassium	ND	1.0								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R7786		RunNo: 7786							
Prep Date:	Analysis Date: 12/31/2012		SeqNo: 226436		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.54	0.040	0.5000	0	107	85	115			
Potassium	54	1.0	50.00	0	107	85	115			

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R7786		RunNo: 7786							
Prep Date:	Analysis Date: 12/31/2012		SeqNo: 226437		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.54	0.040	0.5000	0	109	85	115			
Potassium	57	1.0	50.00	0	113	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW		Batch ID:	R7605		RunNo:	7605				
Prep Date:			Analysis Date:	12/19/2012		SeqNo:	220893		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	0.025	0.0010	0.02500	0	102	85	115				
Arsenic	0.025	0.0010	0.02500	0	100	85	115				
Cadmium	0.025	0.0010	0.02500	0	101	85	115				
Chromium	0.024	0.0010	0.02500	0	95.5	85	115				
Copper	0.024	0.0010	0.02500	0	97.0	85	115				
Lead	0.025	0.0010	0.02500	0	101	85	115				
Nickel	0.024	0.0010	0.02500	0	95.1	85	115				
Selenium	0.025	0.0010	0.02500	0	98.1	85	115				
Thallium	0.025	0.0010	0.02500	0	101	85	115				
Uranium	0.027	0.0010	0.02500	0	107	85	115				

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW		Batch ID:	R7605		RunNo:	7605				
Prep Date:			Analysis Date:	12/19/2012		SeqNo:	220895		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	0.025	0.0010	0.02500	.00002435	101	85	115				
Arsenic	0.025	0.0010	0.02500	0	102	85	115				
Cadmium	0.024	0.0010	0.02500	.00001214	97.9	85	115				
Chromium	0.024	0.0010	0.02500	0.0003138	95.3	85	115				
Copper	0.025	0.0010	0.02500	0	98.9	85	115				
Lead	0.025	0.0010	0.02500	0	99.4	85	115				
Nickel	0.024	0.0010	0.02500	0	95.9	85	115				
Selenium	0.024	0.0010	0.02500	0	97.6	85	115				
Thallium	0.025	0.0010	0.02500	0	101	85	115				
Uranium	0.027	0.0010	0.02500	.00003740	110	85	115				

Sample ID	MB		SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	PBW		Batch ID:	R7605		RunNo:	7605				
Prep Date:			Analysis Date:	12/19/2012		SeqNo:	220897		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	0.000024	0.0010								J	
Arsenic	ND	0.0010									
Cadmium	0.000012	0.0010								J	
Chromium	0.00031	0.0010								J	
Copper	ND	0.0010									
Lead	ND	0.0010									
Nickel	ND	0.0010									
Selenium	ND	0.0010									
Thallium	ND	0.0010									
Uranium	0.000037	0.0010								J	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID: R7605		RunNo: 7605						
Prep Date:		Analysis Date: 12/19/2012		SeqNo: 220996		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.024	0.0010	0.02500	0	97.1	85	115			
Uranium	0.027	0.0010	0.02500	0	109	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	MB-5253	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	5253	RunNo:	7483					
Prep Date:	12/13/2012	Analysis Date:	12/13/2012	SeqNo:	216936	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-5253	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	5253	RunNo:	7483					
Prep Date:	12/13/2012	Analysis Date:	12/13/2012	SeqNo:	216937	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.3	80	120			

Sample ID	1212427-001HMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	AT-Outfall	Batch ID:	5253	RunNo:	7483					
Prep Date:	12/13/2012	Analysis Date:	12/13/2012	SeqNo:	216939	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	99.0	75	125			

Sample ID	1212427-001HMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	AT-Outfall	Batch ID:	5253	RunNo:	7483					
Prep Date:	12/13/2012	Analysis Date:	12/13/2012	SeqNo:	216940	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.8	75	125	0.228	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID MB	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R7442		RunNo: 7442							
Prep Date:	Analysis Date: 12/11/2012		SeqNo: 215695		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R7442		RunNo: 7442							
Prep Date:	Analysis Date: 12/11/2012		SeqNo: 215696		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.6	90	110			
Chloride	4.9	0.50	5.000	0	98.5	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.2	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			
Sulfate	9.9	0.50	10.00	0	99.2	90	110			

Sample ID 1212427-001DMS	SampType: MS		TestCode: EPA Method 300.0: Anions							
Client ID: AT-Outfall	Batch ID: R7442		RunNo: 7442							
Prep Date:	Analysis Date: 12/11/2012		SeqNo: 215711		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.2	0.10	0.5000	0.7833	89.6	76.6	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	102	72.5	111			
Nitrogen, Nitrate (As N)	3.1	0.10	2.500	0.4939	105	90.4	113			
Sulfate	29	0.50	10.00	17.92	108	84.6	122			

Sample ID 1212427-001DMSD	SampType: MSD		TestCode: EPA Method 300.0: Anions							
Client ID: AT-Outfall	Batch ID: R7442		RunNo: 7442							
Prep Date:	Analysis Date: 12/11/2012		SeqNo: 215712		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.3	0.10	0.5000	0.7833	93.7	76.6	110	1.64	20	
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.2	72.5	111	4.37	20	
Nitrogen, Nitrate (As N)	3.1	0.10	2.500	0.4939	106	90.4	113	1.08	20	
Sulfate	29	0.50	10.00	17.92	111	84.6	122	0.984	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID 5ml-rb	SampType: MBLK		TestCode: EPA Method 624 - VOCs							
Client ID: PBW	Batch ID: R7615		RunNo: 7615							
Prep Date:	Analysis Date: 12/19/2012		SeqNo: 221165		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acrolein	ND	50								
Acrylonitrile	ND	50								

Sample ID 100ng acac icv2	SampType: LCS		TestCode: EPA Method 624 - VOCs							
Client ID: LCSW	Batch ID: R7615		RunNo: 7615							
Prep Date:	Analysis Date: 12/19/2012		SeqNo: 221166		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acrolein	160	50	200.0	0	78.9	5	305			
Acrylonitrile	340	50	200.0	0	171	5	305			

Sample ID 1212427-001a dup	SampType: DUP		TestCode: EPA Method 624 - VOCs							
Client ID: AT-Outfall	Batch ID: R7615		RunNo: 7615							
Prep Date:	Analysis Date: 12/19/2012		SeqNo: 221168		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acrolein	ND	50						0	20	
Acrylonitrile	ND	50						0	20	

Sample ID 1212427-001a acac	SampType: MS		TestCode: EPA Method 624 - VOCs							
Client ID: AT-Outfall	Batch ID: R7615		RunNo: 7615							
Prep Date:	Analysis Date: 12/19/2012		SeqNo: 221169		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acrolein	47	50	100.0	0	46.8	5	305			J
Acrylonitrile	57	50	100.0	0	57.0	5	305			

Sample ID 624 5ml-rb	SampType: MBLK		TestCode: EPA Method 624 - VOCs							
Client ID: PBW	Batch ID: R7656		RunNo: 7656							
Prep Date:	Analysis Date: 12/20/2012		SeqNo: 222355		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
2-Chloroethyl-vinyl ether	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	624 5ml-rb	SampType:	MBLK	TestCode:	EPA Method 624 - VOCs					
Client ID:	PBW	Batch ID:	R7656	RunNo:	7656					
Prep Date:		Analysis Date:	12/20/2012	SeqNo:	222355	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-DCE	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloropropane	ND	5.0								
Ethylbenzene	ND	5.0								
Methylene chloride	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
Total Xylenes	ND	15								
trans-1,2-Dichloroethene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
Trichloroethene	ND	5.0								
Trichlorofluoromethane	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	47		50.00		93.7	70	130			
Surr: 4-Bromofluorobenzene	55		50.00		110	70	130			
Surr: Dibromofluoromethane	42		50.00		84.8	70	130			
Surr: Toluene-d8	50		50.00		99.9	70	130			

Sample ID	100ng 624 std	SampType:	LCS	TestCode:	EPA Method 624 - VOCs					
Client ID:	LCSW	Batch ID:	R7656	RunNo:	7656					
Prep Date:		Analysis Date:	12/20/2012	SeqNo:	222356	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	110	5.0	100.0	0	108	37	151			
Bromodichloromethane	110	5.0	100.0	0	108	35	155			
Bromoform	88	5.0	100.0	0	87.9	45	169			
Bromomethane	96	5.0	100.0	0	96.4	5	242			
Carbon tetrachloride	92	5.0	100.0	0	92.3	70	140			
Chlorobenzene	110	5.0	100.0	0	108	37	160			
Chloroethane	94	5.0	100.0	0	94.1	14	230			
2-Chloroethyl-vinyl ether	110	5.0	400.0	0	26.9	5	305			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	100ng 624 std	SampType:	LCS	TestCode:	EPA Method 624 - VOCs					
Client ID:	LCSW	Batch ID:	R7656	RunNo:	7656					
Prep Date:		Analysis Date:	12/20/2012	SeqNo:	222356	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	100	5.0	100.0	0	103	51	138			
Chloromethane	66	5.0	100.0	0	66.1	5	273			
cis-1,2-DCE	98	5.0	100.0	0	97.6	54	156			
cis-1,3-Dichloropropene	100	5.0	100.0	0	99.6	5	227			
Dibromochloromethane	96	5.0	100.0	0	95.8	53	149			
1,2-Dichlorobenzene	110	5.0	100.0	0	107	18	190			
1,3-Dichlorobenzene	110	5.0	100.0	0	110	59	156			
1,4-Dichlorobenzene	110	5.0	100.0	0	109	18	190			
1,1-Dichloroethane	97	5.0	100.0	0	97.0	59	155			
1,2-Dichloroethane	110	5.0	100.0	0	114	49	155			
1,1-Dichloroethene	110	5.0	100.0	0	115	5	234			
1,2-Dichloropropane	110	5.0	100.0	0	112	5	210			
Ethylbenzene	110	5.0	100.0	0	109	37	162			
Methylene chloride	98	5.0	100.0	0	97.9	5	221			
1,1,2,2-Tetrachloroethane	100	5.0	100.0	0	103	46	157			
Tetrachloroethene	99	5.0	100.0	0	98.7	64	148			
Toluene	110	5.0	100.0	0	111	47	150			
Total Xylenes	320	15	300.0	0	107	37	162			
trans-1,2-Dichloroethene	110	5.0	100.0	0	108	54	156			
trans-1,3-Dichloropropene	110	5.0	100.0	0	108	17	183			
1,1,1-Trichloroethane	99	5.0	100.0	0	99.0	52	162			
1,1,2-Trichloroethane	110	5.0	100.0	0	114	52	150			
Trichloroethene	99	5.0	100.0	0	98.5	71	157			
Trichlorofluoromethane	96	5.0	100.0	0	95.9	17	181			
Vinyl chloride	95	5.0	100.0	0	94.5	5	251			
Surr: 1,2-Dichloroethane-d4	160		150.0		104	70	130			
Surr: 4-Bromofluorobenzene	170		150.0		114	70	130			
Surr: Dibromofluoromethane	130		150.0		83.4	70	130			
Surr: Toluene-d8	160		150.0		107	70	130			

Sample ID	1212427-001a dup	SampType:	DUP	TestCode:	EPA Method 624 - VOCs					
Client ID:	AT-Outfall	Batch ID:	R7656	RunNo:	7656					
Prep Date:		Analysis Date:	12/20/2012	SeqNo:	222367	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	5.0						0	20	
Bromodichloromethane	ND	5.0						0	20	
Bromoform	ND	5.0						0	20	
Bromomethane	ND	5.0						0	20	
Carbon tetrachloride	ND	5.0						0	20	
Chlorobenzene	ND	5.0						0	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID 1212427-001a dup		SampType: DUP		TestCode: EPA Method 624 - VOCs						
Client ID: AT-Outfall		Batch ID: R7656		RunNo: 7656						
Prep Date:		Analysis Date: 12/20/2012		SeqNo: 222367		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroethane	ND	5.0						0	20	
2-Chloroethyl-vinyl ether	ND	5.0						0	20	
Chloroform	ND	5.0						0	20	
Chloromethane	ND	5.0						0	20	
cis-1,2-DCE	1.1	5.0						16.6	20	J
cis-1,3-Dichloropropene	ND	5.0						0	20	
Dibromochloromethane	ND	5.0						0	20	
1,2-Dichlorobenzene	ND	5.0						0	20	
1,3-Dichlorobenzene	ND	5.0						0	20	
1,4-Dichlorobenzene	ND	5.0						0	20	
1,1-Dichloroethane	ND	5.0						0	20	
1,2-Dichloroethane	ND	5.0						0	20	
1,1-Dichloroethene	ND	5.0						0	20	
1,2-Dichloropropane	ND	5.0						0	20	
Ethylbenzene	ND	5.0						0	20	
Methylene chloride	ND	5.0						0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	20	
Tetrachloroethene	ND	5.0						0	20	
Toluene	ND	5.0						0	20	
Total Xylenes	ND	15						0	20	
trans-1,2-Dichloroethene	ND	5.0						0	20	
trans-1,3-Dichloropropene	ND	5.0						0	20	
1,1,1-Trichloroethane	ND	5.0						0	20	
1,1,2-Trichloroethane	ND	5.0						0	20	
Trichloroethene	ND	5.0						0	20	
Trichlorofluoromethane	ND	5.0						0	20	
Vinyl chloride	ND	5.0						0	20	
Surr: 1,2-Dichloroethane-d4	47		50.00		94.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	54		50.00		108	70	130	0	0	
Surr: Dibromofluoromethane	43		50.00		86.5	70	130	0	0	
Surr: Toluene-d8	50		50.00		100	70	130	0	0	

Sample ID 1212427-001a ms		SampType: MS		TestCode: EPA Method 624 - VOCs						
Client ID: AT-Outfall		Batch ID: R7656		RunNo: 7656						
Prep Date:		Analysis Date: 12/20/2012		SeqNo: 222370		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	120	5.0	100.0	0	116	37	151			
Bromodichloromethane	120	5.0	100.0	0	116	35	155			
Bromoform	90	5.0	100.0	0	89.5	45	169			
Bromomethane	110	5.0	100.0	0	111	5	242			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	1212427-001a ms	SampType:	MS	TestCode:	EPA Method 624 - VOCs						
Client ID:	AT-Outfall	Batch ID:	R7656	RunNo:	7656						
Prep Date:		Analysis Date:	12/20/2012	SeqNo:	222370	Units:	µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Carbon tetrachloride	100	5.0	100.0	0	102	70	140				
Chlorobenzene	110	5.0	100.0	0	114	37	160				
Chloroethane	110	5.0	100.0	0	106	14	230				
2-Chloroethyl-vinyl ether	130	5.0	400.0	0	31.9	5	305				
Chloroform	110	5.0	100.0	0	106	51	138				
Chloromethane	72	5.0	100.0	0	71.7	5	273				
cis-1,2-DCE	110	5.0	100.0	1.246	105	54	156				
cis-1,3-Dichloropropene	110	5.0	100.0	0	105	5	227				
Dibromochloromethane	100	5.0	100.0	0	101	53	149				
1,2-Dichlorobenzene	110	5.0	100.0	0	112	18	190				
1,3-Dichlorobenzene	110	5.0	100.0	0	114	59	156				
1,4-Dichlorobenzene	110	5.0	100.0	0	115	18	190				
1,1-Dichloroethane	110	5.0	100.0	0	106	59	155				
1,2-Dichloroethane	120	5.0	100.0	0	123	49	155				
1,1-Dichloroethene	120	5.0	100.0	0	123	5	234				
1,2-Dichloropropane	120	5.0	100.0	0	121	5	210				
Ethylbenzene	120	5.0	100.0	0	115	37	162				
Methylene chloride	110	5.0	100.0	0	107	5	221				
1,1,2,2-Tetrachloroethane	110	5.0	100.0	0	111	46	157				
Tetrachloroethene	110	5.0	100.0	0	106	64	148				
Toluene	120	5.0	100.0	0	116	47	150				
Total Xylenes	340	15	300.0	0	113	37	162				
trans-1,2-Dichloroethene	120	5.0	100.0	0	118	54	156				
trans-1,3-Dichloropropene	110	5.0	100.0	0	113	17	183				
1,1,1-Trichloroethane	110	5.0	100.0	0	110	52	162				
1,1,2-Trichloroethane	110	5.0	100.0	0	113	52	150				
Trichloroethene	110	5.0	100.0	0	107	71	157				
Trichlorofluoromethane	110	5.0	100.0	0	107	17	181				
Vinyl chloride	110	5.0	100.0	0	111	5	251				
Surr: 1,2-Dichloroethane-d4	170		150.0		112	70	130				
Surr: 4-Bromofluorobenzene	170		150.0		115	70	130				
Surr: Dibromofluoromethane	130		150.0		89.7	70	130				
Surr: Toluene-d8	170		150.0		114	70	130				

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID mb-1	SampType: MBLK		TestCode: SM2320B: Alkalinity							
Client ID: PBW	Batch ID: R7500		RunNo: 7500							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217465		Units: mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID ics-1	SampType: LCS		TestCode: SM2320B: Alkalinity							
Client ID: LCSW	Batch ID: R7500		RunNo: 7500							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217466		Units: mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	81	20	80.00	0	102	88.1	104			

Sample ID mb-2	SampType: MBLK		TestCode: SM2320B: Alkalinity							
Client ID: PBW	Batch ID: R7500		RunNo: 7500							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217479		Units: mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID ics-2	SampType: LCS		TestCode: SM2320B: Alkalinity							
Client ID: LCSW	Batch ID: R7500		RunNo: 7500							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217480		Units: mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	82	20	80.00	0	102	88.1	104			

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID MB	SampType: MBLK		TestCode: SM 5310B: TOC							
Client ID: PBW	Batch ID: R7499		RunNo: 7499							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217448		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	1.0								

Sample ID LCS ST9060-12006	SampType: LCS		TestCode: SM 5310B: TOC							
Client ID: LCSW	Batch ID: R7499		RunNo: 7499							
Prep Date:	Analysis Date: 12/13/2012		SeqNo: 217449		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Organic Carbon, Total	4.8	1.0	4.850	0	99.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID MB-5294	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 5294		RunNo: 7590							
Prep Date: 12/17/2012	Analysis Date: 12/18/2012		SeqNo: 220447		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID LCS-5294	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 5294		RunNo: 7590							
Prep Date: 12/17/2012	Analysis Date: 12/18/2012		SeqNo: 220448		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212427

08-Jan-13

Client: New Mexico Copper Corp

Project: NMCC PWs

Sample ID	MB-5246	SampType:	MBLK	TestCode:	SM 2540D: TSS					
Client ID:	PBW	Batch ID:	5246	RunNo:	7489					
Prep Date:	12/12/2012	Analysis Date:	12/13/2012	SeqNo:	217032	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0								

Sample ID	LCS-5246	SampType:	LCS	TestCode:	SM 2540D: TSS					
Client ID:	LCSW	Batch ID:	5246	RunNo:	7489					
Prep Date:	12/12/2012	Analysis Date:	12/13/2012	SeqNo:	217033	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	92	4.0	96.60	0	95.2	85.8178	113.8716			

Sample ID	1212427-001DDUP	SampType:	DUP	TestCode:	SM 2540D: TSS					
Client ID:	AT-Outfall	Batch ID:	5246	RunNo:	7489					
Prep Date:	12/12/2012	Analysis Date:	12/13/2012	SeqNo:	217040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids	ND	4.0						0	15	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Sample Log-In Check List

Client Name: NEW MEXICO COPPER CORP Work Order Number: 1212427
 Received by/date: MA 12/11/12
 Logged By: Michelle Garcia 12/11/2012 8:42:00 AM *Michelle Garcia*
 Completed By: Michelle Garcia 12/11/2012 10:11:32 AM *Michelle Garcia*
 Reviewed By: [Signature] 12/11/12

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? ~~Yes~~ No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 3/1
 (<2 or >12 unless noted)
 Adjusted? NO
 Checked by: [Signature]

Special Handling (if applicable)

- 17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:
-001I, -001D - POURED OFF INTO PROPER CONTAINERS FROM EXTRA VOLUME (1 LAUREL)

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Not Present			

[Signature] 12/11/12

Chain-of-Custody Record

Client: New Mexico Copper Corporation

Mailing Address: 2424 Louisiana Blvd
Ste 300 Albuquerque NM 87110

Phone #: 505-400-7925
 email or Fax#: kemmer@the-mac-resources-group.com

QA/QC Package:
 Standard
 Level 4 (Full Validation)
 Accreditation
 NELAP
 Other _____
 EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

NMCC PWS

Project #:

Project Manager:

Katie Emmer

Sampler: Katie Emmer

On Ice: Yes No
 Sample Temperature: 49

Container Type and #

Preservative Type

HEAL No.

Glass-amber bottles - 4
NB-5
Small filter-1
1-500ml
1-500ml each
1 plastic
1-liter

2-HCl
HNO3
HNO3
NaOH
H2SO4

1812427
-001

Sample Request ID

Matrix

Date Time

12-10-12 15:15
water
AT-Outfall

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO3, NO2, PO4, SO4)

8081-Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

See lists attached

Remarks:

Please use lowest MQL in all cases. Call Katie Emmer @ 505-400-7925 with any question

Received by:

M. Williams
12/10/12 08:42
 Date Time

Relinquished by:

Katie Emmer

Date Time

Relinquished by:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX A of PART II

The following Minimum Quantification Levels (MQL's) are to be used for reporting pollutant data for NPDES permit applications and/or compliance reporting.

POLLUTANTS	MQL µg/l	POLLUTANTS	MQL µg/l
METALS, RADIOACTIVITY, CYANIDE and CHLORINE			
Aluminum	2.5	Molybdenum	10
Antimony	60	Nickel	0.5
Arsenic	0.5	Selenium	5
Barium	100	Silver	0.5
Beryllium	0.5	Thallium	0.5
Boron	100	Uranium	0.1
Cadmium	1	Vanadium	50
Chromium	10	Zinc	20
Cobalt	50	Cyanide	10
Copper	0.5	Cyanide, weak acid dissociable	10
Lead	0.5	Total Residual Chlorine	33
Mercury *1	0.0005 0.005		
DIOXIN			
2,3,7,8-TCDD	0.00001		
VOLATILE COMPOUNDS			
Acrolein	50	1,3-Dichloropropylene	10
Acrylonitrile	20	Ethylbenzene	10
Benzene	10	Methyl Bromide	50
Bromoform	10	Methylene Chloride	20
Carbon Tetrachloride	2	1,1,2,2-Tetrachloroethane	10
Chlorobenzene	10	Tetrachloroethylene	10
Chlorodibromomethane	10	Toluene	10
Chloroform	50	1,2-trans-Dichloroethylene	10
Dichlorobromomethane	10	1,1,2-Trichloroethane	10
1,2-Dichloroethane	10	Trichloroethylene	10
1,1-Dichloroethylene	10	Vinyl Chloride	10
1,2-Dichloropropane	10		
ACID COMPOUNDS			
2-Chlorophenol	10	2,4-Dinitrophenol	50
2,4-Dichlorophenol	10	Pentachlorophenol	5
2,4-Dimethylphenol	10	Phenol	10
4,6-Dinitro-o-Cresol	50	2,4,6-Trichlorophenol	10

POLLUTANTS	MQL µg/l	POLLUTANTS	MQL µg/l
BASE/NEUTRAL			
Acenaphthene	10	Dimethyl Phthalate	10
Anthracene	10	Di-n-Butyl Phthalate	10
Benzidine	50	2,4-Dinitrotoluene	10
Benzo(a)anthracene	5	1,2-Diphenylhydrazine	20
Benzo(a)pyrene	5	Fluoranthene	10
3,4-Benzofluoranthene	10	Fluorene	10
Benzo(k)fluoranthene	5	Hexachlorobenzene	5
Bis(2-chloroethyl)Ether	10	Hexachlorobutadiene	10
Bis(2-chloroisopropyl)Ether	10	Hexachlorocyclopentadiene	10
Bis(2-ethylhexyl)Phthalate	10	Hexachloroethane	20
Butyl Benzyl Phthalate	10	Indeno(1,2,3-cd)Pyrene	5
2-Chloronaphthalene	10	Isophorone	10
Chrysene	5	Nitrobenzene	10
Dibenzo(a,h)anthracene	5	n-Nitrosodimethylamine	50
1,2-Dichlorobenzene	10	n-Nitrosodi-n-Propylamine	20
1,3-Dichlorobenzene	10	n-Nitrosodiphenylamine	20
1,4-Dichlorobenzene	10	Pyrene	10
3,3'-Dichlorobenzidine	5	1,2,4-Trichlorobenzene	10
Diethyl Phthalate	10		
PESTICIDES AND PCBS			
Aldrin	0.01	Beta-Endosulfan	0.02
Alpha-BHC	0.05	Endosulfan sulfate	0.02
Beta-BHC	0.05	Endrin	0.02
Gamma-BHC	0.05	Endrin Aldehyde	0.1
Chlordane	0.2	Heptachlor	0.01
4,4'-DDT and derivatives	0.02	Heptachlor Epoxide	0.01
Dieldrin	0.02	PCBs	0.2
Alpha-Endosulfan	0.01	Toxaphene	0.3

(MQL's Revised November 1, 2007)

Footnotes:

*1 Default MQL for Mercury is 0.005 unless Part I of your permit requires the more sensitive Method 1631 (Oxidation / Purge and Trap / Cold vapor Atomic Fluorescence Spectrometry), then the MQL shall be 0.0005.

PART I – REQUIREMENTS FOR NPDES PERMITS

SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

1. FINAL Effluent Limits – 3.0 MGD

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge groundwater to Grayback Arroyo thence Greenhorn Arroyo thence to Caballo Reservoir, in Segment Number 20.6.4.98, from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
POLLUTANT pH	6.6	9.0	Once/Week (*2)	Grab

EFFLUENT CHARACTERISTICS POLLUTANT	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	30-DAY AVG	DAILY MAX	30-DAY AVG	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	Report MGD	Report MGD	***	***	Once/Week (*2)	Estimate (*3)
Arsenic, dissolved	N/A	N/A	Report	Report *	Once/Month (*2)	Grab
Aluminum, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Cadmium, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Chromium, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Copper, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Lead, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Manganese, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Mercury, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Molybdenum, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Nickel, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Selenium, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Silver, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Thallium, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab
Zinc, dissolved	N/A	N/A	Report	Report	Once/Month (*2)	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING Single Grab Sample, ug/l	EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING Single Grab Sample, ug/l
POLLUTANT		POLLUTANT	
1,2-Dichlorobenzene		Nitrobenzene	
1,3-Dichlorobenzene		n-Nitrodimethylamine	
1,4-Dichlorobenzene		n-Nitrosodi-n-Propylamine	
3,3-Dichlorobenzidine		n-Nitrosodiphenylamine	
Diethyl Phthalate		Pyrene	
Dimethyl Phthalate		1,2,4-Trichlorobenzene	
Dibutyl Phthalate		Aldrin	
2,4-Dinitrotoluene		Alpha-BHC	
1,2-Diphenylhydrazine		Beta-BHC	
Fluoranthene		Gamma-BHC	
Fluorene		Chlordane	
Hexachlorobenzene		4, 4'-DDT and derivatives	
Hexachlorobutadiene		Dieldrin	
Hexachlorocyclopentadiene		Alpha-Endosulfan	
Hexachloroethane		Beta-Endosulfan	
Indeno (1,2,3-cd)Pyrene		Endosulfan sulfate	
Isophorone		Endrin	

Footnotes:

*1 See Appendix A of Part II of the permit for minimum quantification limits.

2. Human Health Testing Requirements

Discharges from industrial facilities for permits issued to protect NMWQS human health pollutants are required to be analyzed. The following pollutants need to be sampled ONE-TIME during the first discharge, analyzed and reported with the DMR on a separate form.

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING Single Grab Sample, ug/l (*1)	EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING Single Grab Sample, ug/l (*1)
POLLUTANT		POLLUTANT	
Antimony (dissolved)		Vinyl Chloride	
Cyanide, weak acid dissociable		2-Chlorophenol	
2,3,7,8-TCDD (Dioxin)		2,4-Dichlorophenol	
Acrolein		2,4-Dimethylphenol	
Acrylonitrile		2-Methyl-4	
Benzene		6-Dinitrophenol	
Bromoform		2,4-Dinitrophenol	
Carbon Tetrachloride		Pentachlorophenol	
Chlorobenzene		Phenol	
Chlorodibromomethane		2,4,6-Trichlorophenol	
Chloroform		Acenaphthene	
Dichlorobromomethane		Anthracene	
1,2-Dichloroethane		Benzidine	
1,1-Dichloroethylene		Benzidine	
1,2-Dichloropropane		Benzo(a)anthracene	
1,3-Dichloropropene		Benzo(a)pyrene	*
Ethylbenzene		Benzo(b)fluoranthene	
Methyl Bromide		Benzo(k)fluoranthene	
Methylene Chloride		Bis (2-chloroethyl) Ether	
1,1,2,2-Tetrachloroethane		Bis (2-chloroisopropyl) Ether	
Tetrachloroethylene		Bis (2-ethylhexyl) Phthalate	
Toluene		Butyl Benzyl Phthalate	
1,2--trans-Dichloroethylene		2-Chloronaphthalene	
1,1,2-Trichloroethane		Chrysene	
Trichloroethylene		Dibenzo(a,b)anthracene	

**Table 9-3
Analytical Parameters and Analysis Methods for Groundwater Samples**

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Anions		
Fluoride	EPA Method 300.0	0.1
Chloride	EPA Method 300.0	0.1
Nitrogen, Nitrite (as N)	EPA Method 300.0	0.1
Nitrogen, Nitrate (as N)	EPA Method 300.0	0.1
Sulfate	EPA Method 300.0	0.5
Dissolved Metals		
Aluminum	EPA Method 200.7	0.02
Antimony	EPA Method 200.8	0.005
Arsenic	EPA Method 200.8	0.02
Barium	EPA Method 200.7	0.002
Beryllium	EPA Method 200.7	0.002
Boron	EPA Method 200.7	0.04
Cadmium	EPA Method 200.7	0.002
Calcium	EPA Method 200.7	0.50
Chromium	EPA Method 200.7	0.006
Cobalt	EPA Method 200.7	0.006
Copper	EPA Method 200.7	0.0003
Iron	EPA Method 200.7	0.02
Lead	EPA Method 200.7	0.005
Magnesium	EPA Method 200.7	0.50
Manganese	EPA Method 200.7	0.002
Mercury	EPA Method 7470 CVAA	0.0002
Molybdenum	EPA Method 200.7	0.008
Nickel	EPA Method 200.7	0.01
Potassium	EPA Method 200.7	1.0
Selenium	EPA Method 200.8	0.02
Silicon	EPA Method 200.7	0.08
Silver	EPA Method 200.7	0.005
Sodium	EPA Method 200.7	0.5

Analytical Parameter	Analysis Method	Lab Detection Limit (mg/L unless noted)
Thallium	EPA Method 200.7	0.01
Titanium	EPA Method 200.7	0.005
Uranium	EPA Method 200.8	0.01
Vanadium	EPA Method 200.7	0.005
Zinc	EPA Method 200.7	0.005
Solids		
Total Suspended Solids (TSS)	SM 2540D	1.0 µg/L
Total Dissolved Solids (TDS)	SM 2540C	10
Alkalinity		
Alkalinity, total (as CaCO ₃)	SM 2320B	20
Carbonate	SM 2320B	20
Bicarbonate	SM 2320B	20
Other		
pH	150.1	12.45
Specific Conductance	120.1	0.01 µS/cm
Cyanide	Kelada-01	0.005

Note: NA = not applicable as sample will not be analyzed for a given parameter.