



OGMCOAL DNR <ogmcoal@utah.gov>

Re: Selenium Concerns at Wellington Prep Plant Addressed

Steve Christensen <stevechristensen@utah.gov>

Thu, Sep 29, 2016 at 11:05 AM

To: Patrick Collins <mt.nebo@xmission.com>

Cc: "Timothy P. Stanley" <tpstanley@g1hi.com>, OGMCOAL DNR <ogmcoal@utah.gov>

Good morning Pat,

Sorry for not getting back to you sooner on this. I appreciate all the work that you and Erik put in to getting to the bottom of the elevated selenium issue.

I've had a chance to look at the report and I'm glad that it was nothing more than a lab error. Over the coming weeks/months, I'll go into the database and input the re-run selenium concentrations by hand. I'll chip away at it as time allows.

One thing I wanted to mention, and we've discussed this before, we need to update the MRP with an up to date list of the required monitoring sites. It'd be a quick and easy amendment. Reason being, there are sites in the MRP that are no longer monitored (e.g. GW-12 and GW-11). If you could put an up to date table together of the surface and ground water monitoring sites, it'd help a lot in cleaning up the MRP and what's required/what's not. It'd literally be a two page amendment. Give me a call and we can discuss it.

Thanks again Pat.
Steve

On Tue, Sep 6, 2016 at 1:42 PM, Patrick Collins <mt.nebo@xmission.com> wrote:

Hello Steve:

Attached is a letter-report that addresses your questions about Se at the Wellington site. Also attached are the revised lab analysis reports. I tried to combine the lab data into a single more manageable file but the lab evidently adds an extra layer of protection to their pdf files that prevents changing them in any way.

Let me know that you received this document and if we have adequately addressed your concerns.

Patrick D. Collins, Ph.D.
Mt. Nebo Scientific, Inc.
Research & Consulting
330 East 400 South, Suite 6
Springville, Utah 84663

ph. (801) 489-6937

—
Steve Christensen
Utah Division of Oil, Gas and Mining
1594 W North Temple, Suite 1210
Salt Lake City, Utah 84116
(801) 538-5350
stevechristensen@utah.gov



MT NEBO SCIENTIFIC, INC.
research & consulting

VIA: E-mail

September 6, 2016

Steve Christensen
Permit Supervisor/Hydrologist
Utah Coal Regulatory Program
STATE OF UTAH
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

RE: Wellington Prep Plant (C/007/0012): Selenium Concerns Addressed

Dear Steve:

Attached please find Price River Terminal's response to your questions regarding selenium levels reported in the laboratory water analyses. The elevated levels in the data was a lab error that has been corrected. The revised water lab sheets have also been attached to the letter-report by Erik C. Petersen, our project hydrologist. *I'm sorry I could not combine the attached lab data to a single more manageable file* – the lab evidently adds an extra layer of protection to their pdf files that prevents this.

Please let me know that you received this document and if we have adequately addressed your concerns.

Sincerely,

Patrick D. Collins, Ph.D.
Resident Agent

Attachment(s): Petersen Hydrologic Letter-Report
Revised Laboratory Analysis Reports

cc: T. Stanley (PRT)



PETERSEN HYDROLOGIC

6 September 2016

Mr. Patrick Collins, Ph.D.
Mt. Nebo Scientific, Inc.
Research and Consulting
330 East 400 South, Suite 6
P.O. Box 337
Springville, Utah 84663

Patrick,

At your request, we have investigated recent laboratory reported selenium data for groundwaters and surface waters at the PRT Wellington Prep Plant. The results of our investigation are summarized in this letter report.

Background

As specified in the PRT hydrologic monitoring plan, as approved by the Utah Division of Oil, Gas and Mining (Division), monitoring of groundwaters and surface waters is performed quarterly at the PRT Wellington Prep Plant site. The water monitoring activities are performed by qualified individuals and laboratory water quality measurements are performed by certified laboratories. The results of the quarterly water monitoring activities are reported quarterly to the Division for their review. The water monitoring data are submitted electronically to the Division through their on-line Coal Mining Water Quality Database by PRT (available on-line at:

<http://linux3.ogm.utah.gov/WebStuff/wwwroot/wqdb.html>). Laboratory measured water-quality parameters are uploaded by PRT to the Division's database using a laboratory-provided electronic data transfer file. The use of the laboratory-provided electronic data transfer file simplifies the data entry process and minimizes the potential for data entry errors. Providing the water monitoring data to the Division in an electronic format (rather than paper copy) enhances and simplifies the process of effectively reviewing the submitted data (e.g. by graphing, statistical analysis, etc.).

The Division's Coal Water Quality Database incorporates several internal error checking subroutines to detect and "flag" possible data entry or laboratory errors in the operator-provided water monitoring information prior to its being officially uploaded into the Division's database. One of the conditions that set a "flagged" status in the database is when a data item currently being entered differs from historic data collected at the same monitoring site by more than two standard deviations. Data items flagged by the database in this way may then be further evaluated to determine whether the deviation may be a result of sampling error, laboratory error, data entry error, or whether the deviation is indicative of a physical change in the groundwater or surface-water system.

Laboratory Reported Selenium Data

As part of the approved PRT hydrologic monitoring plan, selenium is analyzed quarterly in groundwaters and surface waters. Selenium analyses are performed at the certified laboratory in both total and dissolved form. Historically, while selenium has been detected periodically in relatively low concentrations, elevated selenium concentrations have not generally been noted.

Beginning in the 3rd and 4th quarters of 2015, it was noted that somewhat elevated total selenium concentrations were reported by the certified laboratory for PRT groundwaters

and surface waters. Several (though not all) of these reported values triggered the database “flag” indicating that reported values varied from historical values by more than two standard deviations. As noted, laboratory detections of total selenium at concentrations marginally above the laboratory detection limit have occurred periodically throughout the history of hydrologic monitoring at the PRT Wellington Prep Plant site. However, it was noted that the reported total selenium concentrations reported by the laboratory during the previous quarter (2nd quarter 2015) were below the laboratory detection limit (0.02 mg/L) for all of the 16 samples for which total selenium was analyzed. This observation caused increased scrutiny of the more recent total selenium data.

During the 3rd quarter 2015 sampling, selenium was detected at concentrations above the laboratory detection limit at all of the 14 monitoring stations for which total selenium was analyzed (the other two stations monitored during the 3rd quarter of 2015 did not have sufficient water present to collect a representative laboratory water quality sample). Similarly, 15 of 15 samples collected during the 4th quarter of 2015 and 13 of 14 samples collected during the 1st quarter of 2016 had reported total selenium concentrations exceeding the 0.02 mg/L laboratory detection limit. It was noted that the elevated laboratory-reported total selenium concentrations measured during the 3rd and 4th quarters of 2015 and also the 1st quarter of 2016 were observed at all monitoring stations, including up-stream and down-stream stations on the Price River, and at both up-gradient and down-gradient locations in groundwater monitoring wells. During review of the certified laboratory data reporting sheets, no data entry errors were identified (i.e. differences between values reported to the Division and values reported on the data sheets).

Subsequently, Mr. Steve Christensen of the Utah Division of Oil, Gas and Mining contacted Mr. Patrick Collins (PRT representative) to inquire about the reported recent total selenium concentrations measured during the 3rd and 4th quarters of 2015 and the 1st quarter of 2016 that had been entered into the Division’s database. At this time it was our

belief that the reported elevated total selenium concentrations were likely a result of laboratory error and were not indicative of physical changes in the groundwater and surface-water systems at the PRT Wellington Prep Plant area. This conclusion was based on our observations that 1) during the previous monitoring quarter (2nd quarter 2015) total selenium concentrations were less than the 0.02 mg/L laboratory detection limit at each of the 15 monitored sites, 2) the elevated total selenium concentrations reported by the laboratory for the 3rd and 4th quarters of 2015 and the 1st quarter of 2016 were including sites were almost all elevated above the laboratory detection limit, including sites that are both up-stream and down-stream in the Price River, and in both up-gradient and down-gradient groundwater monitoring wells, 3) by the time of the 2nd quarter 2016 monitoring event, the laboratory-reported total selenium concentrations at the PRT site were at or below the 0.02 mg/L laboratory detection limit in 13 of 14 monitoring sites for which total selenium was measured that quarter, and 4) there were no ongoing activities at the PRT Wellington Prep Plant site that could have resulted in such widespread changes to total selenium concentrations in groundwaters and surface waters in the area. Our beliefs in this regard were conveyed to Division personnel during our correspondence.

During our correspondence with Mr. Christensen, it was agreed that PRT would further investigate the possibility that the reported total selenium concentrations were a result of laboratory error. Accordingly, we contacted the laboratory and requested that the potential that there were laboratory errors in their reported total selenium data. It was their recommendation that the lab should re-run selected samples from the most recent quarter (2nd quarter 2016) in an attempt to determine whether laboratory there could have been problems with analytical techniques (i.e. potential matrix interference) during previous sample runs. (It is noted that the sample results for the samples collected during the 2nd quarter 2016 monitoring event were not elevated as were the data from the previous three quarters). The results of the re-runs for total selenium for these selected samples did not indicate any problems with laboratory analytical methods (personal communication, Domenic Ibanez, SGS Laboratory, 2016). Subsequently, we requested that the laboratory further investigate the laboratory total selenium results for samples

Mr. Patrick Collins
Page 5 of 5

from the previous three quarters where possible. Through their investigation, the laboratory determined that there had indeed been errors in the reported total selenium values and that these were the result of calculation (dilution) errors. Laboratory personnel were subsequently able to review the archived data and correct the analytical results and provide amended laboratory reports. The amended laboratory reports are attached to this letter report. It is noted that the corrected total selenium results for all samples are less than the laboratory detection limit (<0.02 mg/L).

Please feel free to contact me should you have any questions in this regard.

Sincerely,



Erik C. Petersen, P.G.
Principal Hydrogeologist
Utah PG #5373615-2250





Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: SW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 8, 2015 Sample Taken At: SW-1
Date Received: Sep 9, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1830
Time Received: 0910
Mine: 12
Site: 01

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530600-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

Handwritten signature of Domenico Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

Minerals Services Division
SGS North America Inc. 2035 North Airport Road Huntington UT 84528 t(435) 653-2311 f(435)-653-2436 www.sgs.com/minerals

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Client Sample ID:	SW-1	Sample ID By:	PRT/MT. Nebo Scientific
Date Sampled:	Sep 8, 2015	Sample Taken At:	SW-1
Date Received:	Sep 9, 2015	Sample Taken By:	E.Petersen
Product Description:	WATER	Time Sampled:	1830
		Time Received:	0910
		Mine:	12
		Site:	01

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530600-001

<u>TESTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>METHOD</u>	<u>REPORTING</u>		<u>ANALYZED</u>	
				<u>LIMIT</u>	<u>DATE</u>	<u>TIME</u>	<u>ANALYST</u>
METALS BY ICP (continued)							
Manganese, Mn - Dissolved	0.024	mg/L	EPA 200.7	0.002	2015-09-10	20:33:00	HF
Potassium, K - Dissolved	9.35	mg/L	EPA 200.7	0.14	2015-09-10	20:33:00	HF
Selenium, Se - Total	<0.02	mg/L	EPA 200.7	0.02	2015-09-17	09:07:04	HF
Selenium, Se - Dissolved	<0.02	mg/L	EPA 200.7	0.02	2015-09-10	20:33:00	HF
Sodium, Na - Dissolved	187.01	mg/L	EPA 200.7	0.09	2015-09-10	20:33:00	HF



Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Client Sample ID: SW-2A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 8, 2015 Sample Taken At: SW-2A
Date Received: Sep 9, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1915
Time Received: 0910
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530600-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

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Date Sampled: Sep 8, 2015
Date Received: Sep 9, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: SW-2A
Sample Taken By: E.Petersen
Time Sampled: 1915
Time Received: 0910
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530600-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued) with values for Manganese, Potassium, Selenium, and Sodium.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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Client Sample ID: GW-4
Date Sampled: Sep 8, 2015
Date Received: Sep 9, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-4
Sample Taken By: E.Petersen
Time Sampled: 2000
Time Received: 0910
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530601-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Client Sample ID: GW-4 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 8, 2015 Sample Taken At: GW-4
Date Received: Sep 9, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2000
Time Received: 0910
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530601-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-6
Date Sampled: Sep 8, 2015
Date Received: Sep 9, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 2050
Time Received: 0910
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530601-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and various metals (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenico Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

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Date Sampled: Sep 8, 2015
Date Received: Sep 9, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 2050
Time Received: 0910
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530601-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez
Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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ATTN: Invoice Contact

Client Sample ID: GW-1
Date Sampled: Sep 9, 2015
Date Received: Sep 12, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-1
Sample Taken By: E.Petersen
Time Sampled: 1100
Time Received: 2000
Mine: 12
Site: 09

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-1
Date Sampled: Sep 9, 2015
Date Received: Sep 12, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-1
Sample Taken By: E.Petersen
Time Sampled: 1100
Time Received: 2000
Mine: 12
Site: 09

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-15A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-15A
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1200
Time Received: 2000
Mine: 12
Site: 31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t(435) 653-2311 f(435)-653-2436 www.sgs.com/minerals

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-15A
Date Sampled: Sep 9, 2015
Date Received: Sep 12, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-15A
Sample Taken By: E.Petersen
Time Sampled: 1200
Time Received: 2000
Mine: 12
Site: 31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-15B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-15B
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1230
Time Received: 2000
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Product Description: WATER Time Sampled: 1230
Time Received: 2000
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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ATTN: Invoice Contact

Client Sample ID: GW-14 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-14
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1400
Time Received: 2000
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Domenic Ibanez
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ATTN: Invoice Contact

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Date Sampled: Sep 9, 2015 Sample Taken At: GW-14
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1400
Time Received: 2000
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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ATTN: Invoice Contact

Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-7
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1550
Time Received: 2000
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-7
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1550
Time Received: 2000
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-8 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-8
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1635
Time Received: 2000
Mine: 12
Site: 16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-8 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-8
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1635
Time Received: 2000
Mine: 12
Site: 16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez
Lab Supervisor

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Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID:	GW-10	Sample ID By:	PRT/MT. Nebo Scientific
Date Sampled:	Sep 9, 2015	Sample Taken At:	GW-10
Date Received:	Sep 12, 2015	Sample Taken By:	E.Petersen
Product Description:	WATER	Time Sampled:	1710
		Time Received:	2000
		Mine:	12
		Site:	19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-007

TESTS	RESULT	UNIT	METHOD	REPORTING		ANALYZED	
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	1570	mg/L	SM2340-B	1	2015-10-01	16:57:14	DI
Anions	49.47	meq/L	SM1030E	0	2015-10-01	16:57:14	DI
Balance	0.82	%	SM1030E	-10	2015-10-01	16:57:14	DI
Cations	50.29	meq/L	SM1030E	0	2015-10-01	16:57:14	DI
Alkalinity, mg CaCO3/L (pH 4.5)	362	mg/L	SM2320-B	5	2015-09-21	17:56:00	MS
Bicarbonate Alkalinity as CaCO3	344	mg/L	SM2320-B	5	2015-09-21	17:56:00	MS
Carbonate Alkalinity as CaCO3	19	mg/L	SM2320-B	5	2015-09-21	17:56:00	MS
Total Dissolved Solids	3682	mg/L	SM2540-C	30	2015-09-14	15:00:00	HF
Chloride, Cl	60	mg/L	EPA 300.0	1	2015-09-18	07:39:00	DI
Sulfate, SO4	1948	mg/L	EPA 300.0	1	2015-09-18	07:39:00	DI
METALS BY ICP							
Boron, B - Total	0.67	mg/L	EPA 200.7	0.01	2015-09-15	12:00:00	HF
Boron, B - Dissolved	0.66	mg/L	EPA 200.7	0.01	2015-09-17	11:25:00	HF
Calcium, Ca - Dissolved	251.67	mg/L	EPA 200.7	0.03	2015-09-17	11:25:00	HF
Iron, Fe - Total	7.04	mg/L	EPA 200.7	0.05	2015-09-15	12:00:00	HF
Iron, Fe - Dissolved	6.53	mg/L	EPA 200.7	0.03	2015-09-17	11:25:00	HF
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.01	2015-09-17	11:25:00	HF
Magnesium, Mg - Dissolved	228.60	mg/L	EPA 200.7	0.01	2015-09-17	11:25:00	HF
Manganese, Mn - Total	0.658	mg/L	EPA 200.7	0.002	2015-09-15	12:00:00	HF
Manganese, Mn - Dissolved	0.600	mg/L	EPA 200.7	0.002	2015-09-17	11:25:00	HF
Potassium, K - Dissolved	4.62	mg/L	EPA 200.7	0.14	2015-09-17	11:25:00	HF
Selenium, Se - Total	<0.02	mg/L	EPA 200.7	0.02	2015-09-15	12:00:00	HF



Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Date Sampled: Sep 9, 2015 Sample Taken At: GW-10
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1710
Time Received: 2000
Mine: 12
Site: 19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-007

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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ATTN: Invoice Contact

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Date Sampled: Sep 9, 2015 Sample Taken At: GW-9B
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1750
Time Received: 2000
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-008

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Date Sampled: Sep 9, 2015 Sample Taken At: GW-9B
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1750
Time Received: 2000
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-008

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ATTN: Invoice Contact

Client Sample ID: GW-9 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-9
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1825
Time Received: 2000
Mine: 12
Site: 17

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-009

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-9 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-9
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1825
Time Received: 2000
Mine: 12
Site: 17

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-009

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
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P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT, Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-16
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2020
Time Received: 2000
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-010

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Sep 9, 2015 Sample Taken At: GW-16
Date Received: Sep 12, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2020
Time Received: 2000
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1530648-010

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: SW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 21, 2015 Sample Taken At: SW-1
Date Received: Dec 21, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1245
Time Received: 1510
Mine: 12
Site: 1

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1531924-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include various chemical tests like Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, and Metals by ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: SW-1
Date Sampled: Dec 21, 2015
Date Received: Dec 21, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: SW-1
Sample Taken By: E.Petersen
Time Sampled: 1245
Time Received: 1510
Mine: 12
Site: 1

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1531924-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued) with results for Manganese, Potassium, Selenium, and Sodium.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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September 01, 2016

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: SW-2A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 21, 2015 Sample Taken At: SW 2A
Date Received: Dec 21, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1415
Time Received: 1510
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1531924-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: SW-2A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 21, 2015 Sample Taken At: SW 2A
Date Received: Dec 21, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1415
Time Received: 1510
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1531924-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued) with values for Manganese, Potassium, Selenium, and Sodium.

Handwritten signature of Domenic Ibanez
Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-8 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-8
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1115
Time Received: 1825
Mine: 12
Site: 16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-8 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-8
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1115
Time Received: 1825
Mine: 12
Site: 16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-14 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-14
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1230
Time Received: 1825
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-14 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-14
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1230
Time Received: 1825
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-7
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1250
Time Received: 1825
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-7
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1250
Time Received: 1825
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-10 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-10
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1310
Time Received: 1825
Mine: 12
Site: 19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-10 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-10
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1310
Time Received: 1825
Mine: 12
Site: 19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-9B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-9B
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1325
Time Received: 1825
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t(435) 653-2311 f(435)-653-2436 www.sgs.com/minerals

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Date Sampled: Dec 28, 2015 Sample Taken At: GW-9B
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1325
Time Received: 1825
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-9 Sample ID By: PRT/MT, Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-9
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1340
Time Received: 1825
Mine: 12
Site: 17

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-9 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-9
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1340
Time Received: 1825
Mine: 12
Site: 17

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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Lab Supervisor

Domenic Ibanez
Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-13
Date Sampled: Dec 28, 2015
Date Received: Dec 28, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-13
Sample Taken By: E.Petersen
Time Sampled: 1405
Time Received: 1825
Mine: 12
Site: 22

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-007

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Domenic Ibanez
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Date Sampled: Dec 28, 2015 Sample Taken At: GW-13
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Product Description: WATER Time Sampled: 1405
Time Received: 1825
Mine: 12
Site: 22

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-007

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID:	GW-15A	Sample ID By:	PRT/MT. Nebo Scientific
Date Sampled:	Dec 28, 2015	Sample Taken At:	GW-15A
Date Received:	Dec 28, 2015	Sample Taken By:	E.Petersen
Product Description:	WATER	Time Sampled:	1530
		Time Received:	1825
		Mine:	12
		Site:	31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-008

TESTS	RESULT	UNIT	METHOD	REPORTING		ANALYZED	
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	2459	mg/L	SM2340-B	1	2016-01-19	13:30:00	HF
Anions	82.08	meq/L	SM1030E	0	2016-01-19	13:30:00	HF
Balance	-1.25	%	SM1030E	-10	2016-01-19	13:30:00	HF
Cations	80.06	meq/L	SM1030E	0	2016-01-19	13:30:00	HF
Alkalinity, mg CaCO3/L (pH 4.5)	702	mg/L	SM2320-B	5	2016-01-14	13:31:00	MS
Bicarbonate Alkalinity as CaCO3	702	mg/L	SM2320-B	5	2016-01-14	13:31:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-01-14	13:31:00	MS
Total Dissolved Solids	5723	mg/L	SM2540-C	30	2015-12-30	13:00:00	MS
Chloride, Cl	162	mg/L	EPA 300.0	1	2016-01-19	13:50:00	HF
Sulfate, SO4	3048	mg/L	EPA 300.0	1	2016-01-19	13:50:00	HF
METALS BY ICP							
Boron, B - Total	0.65	mg/L	EPA 200.7	0.01	2016-01-05	17:25:05	HF
Boron, B - Dissolved	0.65	mg/L	EPA 200.7	0.01	2016-01-12	17:08:36	HF
Calcium, Ca - Dissolved	492.90	mg/L	EPA 200.7	0.03	2016-01-12	17:08:36	HF
Iron, Fe - Total	5.99	mg/L	EPA 200.7	0.05	2016-01-05	17:25:05	HF
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2016-01-12	17:08:36	HF
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.01	2016-01-12	17:08:36	HF
Magnesium, Mg - Dissolved	298.23	mg/L	EPA 200.7	0.01	2016-01-12	17:08:36	HF
Manganese, Mn - Total	1.755	mg/L	EPA 200.7	0.002	2016-01-05	17:25:05	HF
Manganese, Mn - Dissolved	1.755	mg/L	EPA 200.7	0.002	2016-01-12	17:08:36	HF
Potassium, K - Dissolved	6.45	mg/L	EPA 200.7	0.14	2016-01-12	17:08:36	HF
Selenium, Se - Total	<0.02	mg/L	EPA 200.7	0.02	2016-01-05	17:25:05	HF

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-15A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-15A
Date Received: Dec 28, 2015 Sample Taken By: E. Petersen
Product Description: WATER Time Sampled: 1530
Time Received: 1825
Mine: 12
Site: 31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-008

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-15B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-15B
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1545
Time Received: 1825
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-009

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Product Description: WATER Time Sampled: 1545
Time Received: 1825
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-009

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-16
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1600
Time Received: 1825
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-010

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-16
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1600
Time Received: 1825
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-010

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-4
Date Sampled: Dec 28, 2015
Date Received: Dec 28, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-4
Sample Taken By: E.Petersen
Time Sampled: 1640
Time Received: 1825
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-011

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Client Sample ID: GW-4 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-4
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1640
Time Received: 1825
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-011

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Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-6
Date Sampled: Dec 28, 2015
Date Received: Dec 28, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 1710
Time Received: 1825
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-012

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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September 01, 2016

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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-6
Date Sampled: Dec 28, 2015
Date Received: Dec 28, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 1710
Time Received: 1825
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-012

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-1
Date Sampled: Dec 28, 2015
Date Received: Dec 28, 2015
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-1
Sample Taken By: E.Petersen
Time Sampled: 1745
Time Received: 1825
Mine: 12
Site: 09

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-013

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Dec 28, 2015 Sample Taken At: GW-1
Date Received: Dec 28, 2015 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1745
Time Received: 1825
Mine: 12
Site: 09

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1532068-013

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued), Selenium, Se - Dissolved, and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-1
Date Sampled: Mar 29, 2016
Date Received: Mar 30, 2016
Product Description: GW_1
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-1
Sample Taken By: E.Petersen
Time Sampled: 1545
Time Received: 936
Mine: 12
Site: 9

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-1
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: GW_1 Time Sampled: 1545
Time Received: 936
Mine: 12
Site: 9

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-16
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1845
Time Received: 936
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-16 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-16
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1845
Time Received: 936
Mine: 12
Site: 33

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-15A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-15A
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1945
Time Received: 936
Mine: 12
Site: 31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-15A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-15A
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1945
Time Received: 936
Mine: 12
Site: 31

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-15B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-15B
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2000
Time Received: 936
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-15B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-15B
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2000
Time Received: 936
Mine: 12
Site: 32

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-4 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: GW-4
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 2030
Time Received: 936
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-4
Date Sampled: Mar 29, 2016
Date Received: Mar 30, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-4
Sample Taken By: E.Petersen
Time Sampled: 2030
Time Received: 936
Mine: 12
Site: 12

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-6
Date Sampled: Mar 29, 2016
Date Received: Mar 30, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 2100
Time Received: 936
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-6
Date Sampled: Mar 29, 2016
Date Received: Mar 30, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-6
Sample Taken By: E.Petersen
Time Sampled: 2100
Time Received: 936
Mine: 12
Site: 14

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635004-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor
Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: SW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: SW-1
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: SW-1 Time Sampled: 1645
Time Received: 936
Mine: 12
Site: 1

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635005-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

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Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: SW-1 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: SW-1
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: SW-1 Time Sampled: 1645
Time Received: 936
Mine: 12
Site: 1

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635005-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued) with data for Manganese, Potassium, Selenium, and Sodium.

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Domenic Ibanez
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September 01, 2016

NEICO MT NEBO SCIENTIFIC
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P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: SW-2A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: SW-2A
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1800
Time Received: 936
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635005-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Oil and Grease, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Settleable Solids, Total Dissolved Solids, Total Suspended Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese).

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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: SW-2A Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 29, 2016 Sample Taken At: SW-2A
Date Received: Mar 30, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1800
Time Received: 936
Mine: 12
Site: 30

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635005-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include METALS BY ICP (continued) with data for Manganese, Potassium, Selenium, and Sodium.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID:	GW-8	Sample ID By:	PRT/MT. Nebo Scientific
Date Sampled:	Mar 31, 2016	Sample Taken At:	GW-8
Date Received:	Mar 31, 2016	Sample Taken By:	E.Petersen
Product Description:	WATER	Time Sampled:	1000
		Time Received:	1345
		Mine:	12
		Site:	16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-001

TESTS	RESULT	UNIT	METHOD	REPORTING		ANALYZED	
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	3559	mg/L	SM2340-B	1	2016-04-21	07:00:00	HF
Anions	175.06	meq/L	SM1030E	0	2016-04-21	07:00:00	HF
Balance	-0.14	%	SM1030E	-10	2016-04-21	07:00:00	HF
Cations	174.58	meq/L	SM1030E	0	2016-04-21	07:00:00	HF
Alkalinity, mg CaCO3/L (pH 4.5)	933	mg/L	SM2320-B	5	2016-04-06	13:00:00	MS
Bicarbonate Alkalinity as CaCO3	933	mg/L	SM2320-B	5	2016-04-06	13:00:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-04-06	13:00:00	MS
Total Dissolved Solids	11948	mg/L	SM2540-C	30	2016-04-06	13:37:00	MS
Chloride, Cl	985	mg/L	EPA 300.0	1	2016-04-15	13:07:00	HF
Sulfate, SO4	6178	mg/L	EPA 300.0	1	2016-04-15	13:07:00	HF
METALS BY ICP							
Boron, B - Total	0.57	mg/L	EPA 200.7	0.01	2014-04-06	13:03:00	HF
Boron, B - Dissolved	0.02	mg/L	EPA 200.7	0.01	2016-04-08	15:45:55	HF
Calcium, Ca - Dissolved	298.00	mg/L	EPA 200.7	0.03	2016-04-08	15:45:55	HF
Iron, Fe - Total	1.82	mg/L	EPA 200.7	0.05	2016-04-08	15:45:47	HF
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2016-04-08	15:45:55	HF
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.01	2016-04-08	15:45:55	HF
Magnesium, Mg - Dissolved	683.67	mg/L	EPA 200.7	0.01	2016-04-08	15:45:55	HF
Manganese, Mn - Total	0.018	mg/L	EPA 200.7	0.002	2014-04-06	13:03:00	HF
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	2016-04-08	15:45:55	HF
Potassium, K - Dissolved	13.01	mg/L	EPA 200.7	0.14	2016-04-08	15:45:55	HF
Selenium, Se - Total	<0.02	mg/L	EPA 200.7	0.02	2014-04-06	13:03:00	HF



Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-8
Date Sampled: Mar 31, 2016
Date Received: Mar 31, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-8
Sample Taken By: E.Petersen
Time Sampled: 1000
Time Received: 1345
Mine: 12
Site: 16

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-001

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

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ATTN: Invoice Contact

Client Sample ID: GW-14 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-14
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1045
Time Received: 1345
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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ATTN: Invoice Contact

Client Sample ID: GW-14 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-14
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1045
Time Received: 1345
Mine: 12
Site: 23

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-002

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor

Domenic Ibanez
Lab Supervisor

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September 01, 2016

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Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-7
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1110
Time Received: 1345
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

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Lab Supervisor

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September 01, 2016

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-7 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-7
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1110
Time Received: 1345
Mine: 12
Site: 15

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-003

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Lab Supervisor
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Lab Supervisor

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330 EAST 400 SOUTH SUITE 6
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SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-10 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-10
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1145
Time Received: 1345
Mine: 12
Site: 19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Handwritten signature of Domenic Ibanez

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ATTN: Invoice Contact

Client Sample ID: GW-10 Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-10
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1145
Time Received: 1345
Mine: 12
Site: 19

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-004

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

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ATTN: Invoice Contact

Client Sample ID: GW-9B Sample ID By: PRT/MT. Nebo Scientific
Date Sampled: Mar 31, 2016 Sample Taken At: GW-9B
Date Received: Mar 31, 2016 Sample Taken By: E.Petersen
Product Description: WATER Time Sampled: 1210
Time Received: 1345
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

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Domenic Ibanez
Lab Supervisor

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September 01, 2016

NEICO MT NEBO SCIENTIFIC
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SPRINGVILLE UT 84663

Page 2 of 2

ATTN: Invoice Contact

Client Sample ID: GW-9B
Date Sampled: Mar 31, 2016
Date Received: Mar 31, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-9B
Sample Taken By: E.Petersen
Time Sampled: 1210
Time Received: 1345
Mine: 12
Site: 18

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-005

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

Handwritten signature of Domenic Ibanez

Domenic Ibanez
Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

Member of the SGS Group (Société Générale de Surveillance)

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Analysis Report

September 01, 2016

NEICO MT NEBO SCIENTIFIC
330 EAST 400 SOUTH SUITE 6
P O BOX 337
SPRINGVILLE UT 84663

Page 1 of 2

ATTN: Invoice Contact

Client Sample ID: GW-9
Date Sampled: Mar 31, 2016
Date Received: Mar 31, 2016
Product Description: WATER
Sample ID By: PRT/MT. Nebo Scientific
Sample Taken At: GW-9
Sample Taken By: E.Petersen
Time Sampled: 1250
Time Received: 1345
Mine: 12
Site: 17

Comments: Dissolved Metals Field Filtered; Amended Total Selenium

SGS Minerals Sample ID: 782-1635078-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Hardness, Anions, Balance, Cations, Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Total Dissolved Solids, Chloride, Sulfate, and METALS BY ICP (Boron, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, Selenium).

Lab Supervisor

Domenic Ibanez
Lab Supervisor

Minerals Services Division
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Site: 17

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SGS Minerals Sample ID: 782-1635078-006

Table with columns: TESTS, RESULT, UNIT, METHOD, REPORTING LIMIT, DATE, ANALYZED TIME, ANALYST. Rows include Selenium, Se - Dissolved and Sodium, Na - Dissolved.

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Domenic Ibanez
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