



GOLDEN PREDATOR EXPLORATION LTD.

BREWERY CREEK MINE

2019 ANNUAL WATER LICENCE REPORT

SUBMITTED TO THE YUKON WATER BOARD

WATER USE LICENCE QZ96-007

2019 ANNUAL QUARTZ MINING LICENSE REPORT

SUBMITTED TO YUKON GOVERNMENT, ENERGY MINES AND RESOURCES

YUKON QUARTZ MINING LICENSE A99-001

February 2020

TABLE OF CONTENTS

1 INTRODUCTION.....	1
2 OVERVIEW OF ACTIVITIES	1
3 MONITORING PROGRAMS AND STUDIES.....	2
3.1 WATER USE.....	2
3.2 CLIMATE	2
3.3 SURFACE WATER QUALITY MONITORING	3
3.3.1 SURFACE WATER SAMPLING METHODS.....	3
3.3.2 WATER QUALITY GUIDELINES.....	4
3.3.3 SURFACE WATER QUALITY RESULTS	7
3.4 GROUNDWATER QUALITY	7
3.4.1 GROUNDWATER SAMPLING METHODS.....	7
3.4.2 GROUNDWATER RESULTS	8
3.5 IN-PIT AND HEAP EFFLUENT MONITORING STATIONS WATER QUALITY RESULTS	9
3.5.1 METHODS	9
3.5.2 EFFLUENT QUALITY STANDARDS	9
3.5.3 RESULTS.....	9
3.6 BIOASSAY MONITORING.....	10
3.7 HYDROLOGY	10
3.8 SEDIMENT AND BENTHIC MONITORING	11
3.9 LEAK DETECTION AND RECOVERY SYSTEMS	11
3.10 AIR QUALITY.....	11
3.11 EFFECTS ON WILDLIFE.....	12
4 ADDITIONAL PLANS AND STUDIES.....	12
4.1 ADAPTIVE MANAGEMENT PLAN.....	12
4.2 IMPACT STUDY OF LOWER LAURA CREEK	12
5 REAGENT AND WASTE MANAGEMENT	12
5.1 SPILL OCCURRENCE AND RESPONSE	12
5.2 REAGENT STORAGE AND HANDLING	12
6 WATER MANAGEMENT.....	12
6.1 DIRECT RELEASE	12
7 GEOTECHNICAL INVESTIGATION	13
8 CONCLUSION	13
9 REFERENCES	14

LIST OF TABLES

Table 2-1: 2019 Water Monitoring at Brewery Creek	2
Table 3-1: Canadian Water Quality Guidelines.....	5
Table 3-2: 2019 Groundwater Compliance Results	8
Table 3-3 Summary of 2019 Stream Flow Measurements (m ³ /s)	11

LIST OF FIGURES

Figure 3-1: Water Quality Monitoring Station Locations.....	6
---	---

LIST OF APPENDICES

APPENDIX A WATER QUALITY DATA SUMMARY

APPENDIX B 2019 SEDIMENT DATA TABLES

APPENDIX C 2019 LOWER LAURA CREEK STUDY

APPENDIX D LAB REPORTS – CERTIFICATE OF ANALYSIS

1 INTRODUCTION

The Brewery Creek Mine is currently owned by Golden Predator Exploration Ltd. (Golden Predator), who signed a purchase agreement with Alexco Resource Corp. in early 2012. The property is located in central Yukon approximately 55 km east of Dawson City and was operated as a conventional open pit heap leach continuously from 1996 through 2001; mining ceased, and reclamation and temporary closure began in 2002. The mine temporary closure and reclamation objectives are outlined in the 2003 Decommissioning and Reclamation Plan (DRP) required under the Water Use License. Site facilities, such as the ponds and administrative buildings have remained in place for a timely restart.

The mine was operated and temporarily closed under Type A Water Use Licence QZ96-007 (originally issued as QZ94-003 in August 1995) and Quartz Mining License A99-001 issued in June 1999. Both licenses expire on December 31, 2021. The Water Use Licence was most recently amended in March of 2012 (Amendment 8, QZ11-035), which addressed updated temporary closure conditions and monitoring, and was assigned to Golden Predator in April 2012. Golden Predator also holds a Type B Water Use Licence MN12-038, which was issued in August 2012, and expires on July 5, 2022. Under this licence Golden Predator has the right to obtain groundwater and upgrade the existing septic system on site for a camp size of 120 people.

Golden Predator holds a Class 4 Mining Land Use Approval for the Brewery Creek property (LQ00364), which was granted on July 6, 2012. With this Class 4 approval, Golden Predator has been able to extend their exploration beyond the previous licence boundaries.

This report summarizes the 2019 monitoring data and activities relevant to the Water Use Licence QZ96-007, and the Quartz Mining License A99-001. Many aspects of the required monitoring under QZ96-007 and A99-001 have now been completed.

2 OVERVIEW OF ACTIVITIES

As of 2019, under Water-Use License QZ96-007, compliance monitoring of surface and groundwater is annual, with the exception of five sites which are semi-annual. Golden Predator elected to return to monthly sampling in July 2019, as they plan to restart and are preparing for production under the existing license for previously assessed and permitted activities. The sampling conducted in 2019 is described in Table 2-1.

AEG was informed of the following activities conducted onsite by Golden Predator in 2019:

- The BC-65 monitoring well, which has been dry during the sampling events from 2016 to 2018. This well was replaced in November 2019. A sample was collected from the new BC-65 in November 2019.
- Golden Predator began removing of cover material (approximately 55,000 m³) from heap leach pad and placed into winrows on top of pad. Approximately 60% of this material has been hauled and stockpiled to east of pad in cover material storage site.

Table 2-1: 2019 Water Monitoring at Brewery Creek

Sampled by	Date	Sites Sampled
Golden Predator	July 15, 22-24, 2019	BC-04, BC-10, BC-12, BC-15, BC-17, BC-19, BC-21, BC-22, BC-27, BC-28, BC-28a, BC-28b, BC-34, BC-51W, BC-66, BC-67, BC-69
Golden Predator and Yukon Government	August 27-28, 2019	BC-01, BC-02, BC-03, BC-10, BC-17, BC-17a, BC-19, BC-21, BC-28a, BC-32, BC-66, BC-70, LAURA-0.15, LAURA-US, LUCKY-DS, LUCKY-RD, LUCKY-TRIB, LUCKY-US
Klondike H ₂ O for Golden Predator	September 23-24, 26, 2019	BC-01, BC-02, BC-03, BC-04, BC-10, BC-12, BC-15, BC-17, BC-28, BC-28a, BC-28b, BC-34, BC-36, BC-37, BC-51W
Klondike H ₂ O for Golden Predator	October 28-30, 2019	BC-01, BC-02, BC-03, BC-04, BC-06, BC-10, BC-12, BC-15, BC-17, BC-28, BC-28a, BC-28b, BC-32, BC-34, BC-35, BC-35R, BC-37, BC-38, BC-51W
Klondike H ₂ O for Golden Predator	November 24-26, 2019	BC-04, BC-05, BC-06, BC-28, BC-28a, BC-28b, BC-31, BC-33, BC-34, BC-35, BC-35r, BC-36, BC-38, BC-51W, BC-65
Klondike H ₂ O for Golden Predator	December 16-17, 2019	BC-04, BC-05, BC-06, BC-15, BC-33, BC-34, BC-35, BC-35R, BC-38

3 MONITORING PROGRAMS AND STUDIES

3.1 WATER USE

There was no water withdrawn from the authorized sources (Laura Creek, Lucky Creek, Pacific Creek, Lee Creek, North Fork of the South Klondike River, and the South Klondike River,) or the well located at BC-23 during 2019.

3.2 CLIMATE

Requirements under QZ96-007 for the climatic monitoring is described in the Solutions Management Plan, the Blue Zone Monitoring and Assessment Program, and the Heap Leach Pad Cover and Facilities Monitoring Program.

As per these programs and QZ96-007, climatic monitoring was discontinued in 2010, as the heap was deemed detoxified according to specific monitoring requirements (“detoxification of the heap shall be deemed to have occurred when the concentration of Total Cyanide measured at monitoring station BC-28a in accordance with Schedules A and B is equal to or lower than 2.0 mg/L for five consecutive years of monitoring”).

3.3 SURFACE WATER QUALITY MONITORING

3.3.1 *Surface Water Sampling Methods*

All monitoring and sampling were carried out by Golden Predator and Klondike H₂O, with the exception of the samples collected in August, which were collected by Yukon Government. It is assumed in this report that the sampling methods used by these consultants have been consistent with industry standard protocols, including the procedures and standards described in the Guidance Document for the Sampling and Analysis of Metal Mining Effluents (April 2001, EPS2/MM/5, Minerals and Metals Division, Environment Canada) (EC, 2001). Samples were preserved and filtered on the day of collection, where applicable, and were kept cool throughout shipment to Bureau Veritas Laboratories. Samples were analyzed for the following parameters:

- Routine parameters (conductivity, pH, alkalinity, hardness, hydroxide, carbonate);
- Total suspended and dissolved solids (TSS/TDS);
- Ammonia;
- Anions (nitrite, nitrate, fluoride, sulphate, chloride, bromide, ortho-phosphate);
- Dissolved organic carbon (DOC);
- Cyanide (Weak Acid Dissociable and Total); and
- Total and dissolved metals (suite of 33 metals, including all parameters found in the Canadian Council of Ministers of the Environment (CCME) guidelines and Metal Mining and Effluent Regulation (MMER)).

3.3.2 Water Quality Guidelines

Clause 46 of Water Licence QZ96-007 states that:

“Water quality at monitoring stations BC-31, BC-34 and BC-39 shall not exceed the water quality guidelines specified for the protection of aquatic life contained in the Canadian Environmental Quality Guidelines prepared by the Canadian Council of Ministers of Environment, as amended from time to time.”

As such, for the receiving water quality data assessment, water quality parameters were screened against Canadian Water Quality Guidelines for Protection of Aquatic Life (CWQG; CCME 2012), provided in Table 3-1. Some water quality guidelines vary on the basis of water hardness (e.g., cadmium, copper, and lead; CCME 2012).

Two guidelines have been derived for nitrate under the CCME Water Quality Guidelines for Protection of Aquatic Life based on the species measured; the guideline for ionic nitrate is 13 mg/L, while for nitrate as nitrogen it is 3.0 mg/L.

In addition to the CCME guideline, Laura Creek at station BC-39 has an established site-specific selenium criterion of 0.0038 mg/L as defined as per Clause 38(d) of Water Licence QZ96-007.

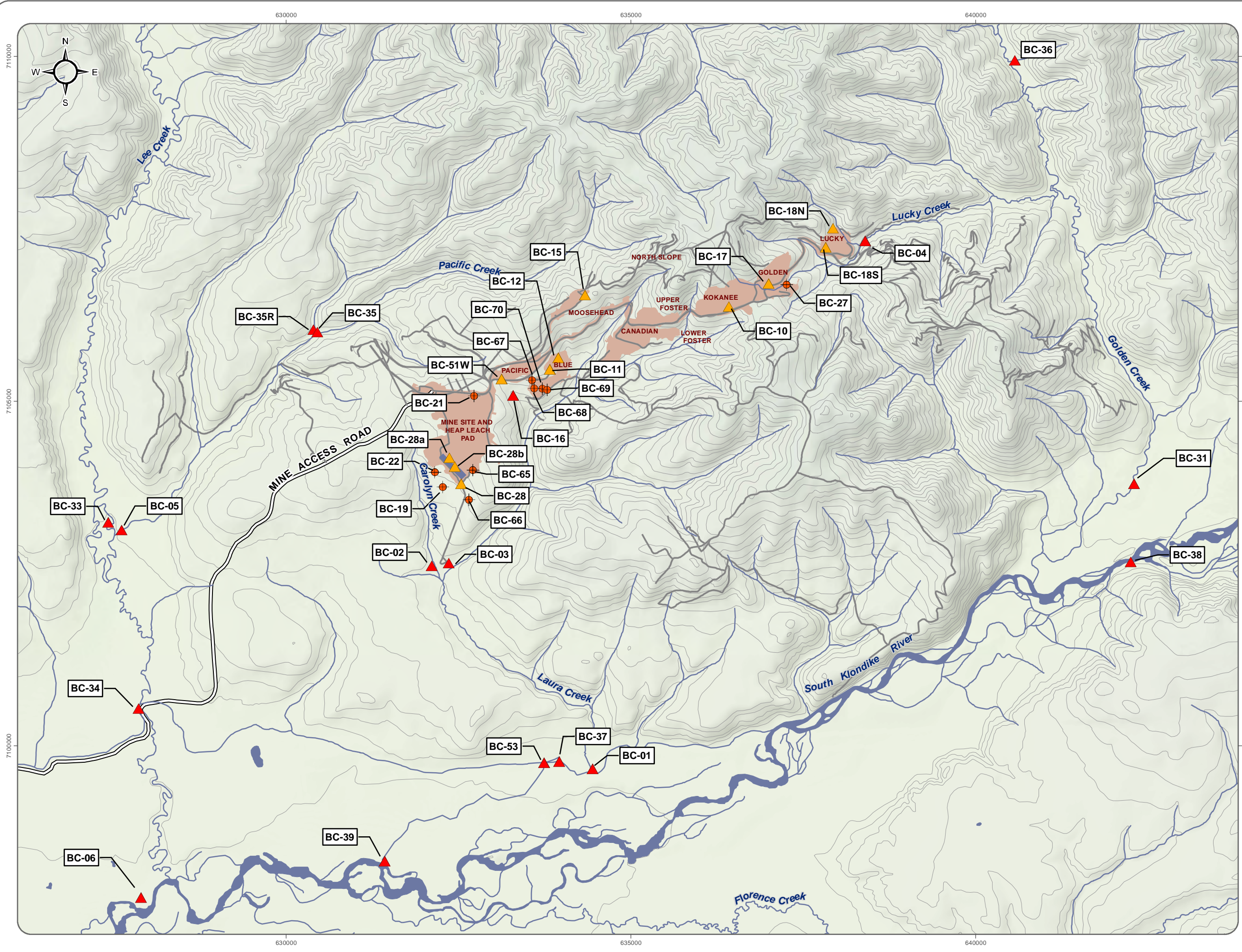
Table 3-1: Canadian Water Quality Guidelines

Parameter	Units	Guideline	
		Source	Value
Aluminum - Total ^a	µg/L	CCME	100
Antimony - Total	µg/L	PWQO	0.02
Arsenic - Total	µg/L	CCME	5
Cadmium - Total ^b	µg/L	CCME	$10^{0.83[\log_{10}(\text{hardness})]-2.46}$
Chromium - Total	µg/L	CCME	1
Copper - Total	µg/L	CCME	$e^{0.8545[\ln(\text{hardness})]-1.465} * 0.2$
Cyanide - WAD	µg/L	CCME	5
Iron - Total	µg/L	CCME	300
Lead - Total	µg/L	CCME	$e^{1.273[\ln(\text{hardness})]-4.705}$
Mercury - Total	µg/L	CCME	0.026
Molybdenum - Total	µg/L	CCME	73
Nickel - Total	µg/L	CCME	$e^{0.76[\ln(\text{hardness})]+1.06}$
Nitrate Nitrogen	µg/L	CCME	3000
Selenium - Total	µg/L	CCME/SSWQS	1/3.8
Silver - Total	µg/L	CCME	0.25
Thallium - Total	µg/L	CCME	0.8
Zinc – Dissolved ^c	µg/L	CCME	$e^{(\ln(\text{hardness})-0.851(\text{pH})+0.398(\text{DOC})+4.625)}$
pH	pH units	CCME	6.5 - 9.0

^a If pH ≥ 6.5

^b Cadmium has two guidelines: one for short term exposure and one for long term exposure. Only the long-term guideline is presented here as it is the most conservative.

^c The guideline applies to dissolved zinc and the formula presented is valid for hardness between 23.4 mg and 399 of CaCO₃/L, pH of 6.5 to 8.13 and dissolved organic carbon between 0.3 and 22.9 mg/L. When DOC was unavailable, the 2019-year average was used. When a parameter was outside the range for the calculation, the upper or lower limit was used.



BREWERY CREEK MINE

**FIGURE 3-1
WATER QUALITY MONITORING STATIONS**

- ▲ Surface Water
- Groundwater
- ▲ In-pit and Heap Water
- Watercourse
- Waterbody
- Access Road
- Other Roads/Trails
- Mine Area
- Contour (100 m interval)

1:52,000 when printed on 11 x 17 inch paper

0 0.5 1 1.5 2 2.5
kilometres



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Reproduced under license from Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources Canada. All rights reserved.

NAD 83 UTM Zone 7N

This drawing has been prepared for the use of Ensero Solution's client and may not be used, reproduced or relied upon by third parties, except as agreed by Ensero Solutions and its client, as required by law or for use of governmental reviewing agencies. Ensero Solutions accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Ensero Solutions express written consent.

D:\Project\AllProjects\BreweryCreek\Maps1-Overview_Maps\WQ_Stations04-GW_AND_SII\WQ_Stations_20200218.mxd
Last edited by: amulshcheyka, 2020-02-18 15:28 PM

3.3.3 Surface Water Quality Results

Surface water quality monitoring stations are presented in

Figure 3-1. All surface water data and in situ parameters, as well as a brief discussion of historical trends, are summarized and compared to CCME Guidelines for the Protection of Aquatic Life in the Brewery Creek Water Quality Assessment Report, provided as Appendix A.

Water Licence QZ96-007 specifies three compliance points for surface water quality: BC-31, BC-34, and BC-39, that must meet CCME Guidelines for the Protection of Aquatic Life.

Compliance station, BC-39 is usually dry or has very low flow. In 2019, BC-39 was sampled in August and September, and was below the SSWQO (0.0038 mg/L) for both events.

BC-34 exceeded the CCME guideline for total selenium (0.001 mg/L) for all four samples collected in 2019 with an average of 0.0024 mg/L. The two samples collected at BC-31 in 2019 marginally exceeded the selenium guideline with an average of 0.0017mg/L. It has been previously documented that associated upstream reference stations (BC-36, and BC-33, respectively) also exceed the selenium guideline indicating that elevated concentrations of selenium are naturally occurring in the area.

3.4 GROUNDWATER QUALITY

3.4.1 Groundwater Sampling Methods

All monitoring and sampling were carried out by Golden Predator and Klondike H₂O, with the exception of the samples collected in August, which were collected by Yukon Government. It is assumed in this report that the sampling methods used by these consultants have been consistent with industry standard protocols, including:

- Environment Yukon's CSR Protocol No. 7: Groundwater Monitoring Well Installation, Sampling and Decommissioning (2002);
- ASTM D4448-01 Standard Guide for Sampling Groundwater Monitoring Wells (ASTM 2013); and
- ASTM D6452-99 Guide for purging Methods for Wells used for Groundwater Quality Investigations (ASTM 2012).

All samples were preserved and filtered on the day of collection, where applicable, and kept cool until shipment to Bureau Veritas Laboratories. Samples were analyzed for the following parameters:

- Routine parameters (conductivity, pH, alkalinity, hardness, hydroxide, carbonate);
- Total dissolved solids;
- Ammonia;
- Anions (nitrite, nitrate, fluoride, sulphate, chloride, bromide, ortho-phosphate);
- Cyanide (Weak Acid Dissociable and Total); and
- Dissolved metals (suite of 33 metals at low level detection limits).

3.4.2 Groundwater Results

There are seven single groundwater wells plus two nested installations for a total of eleven groundwater monitoring wells to be monitored annually under the Water License, plus the BC-70 Blue WRSA lysimeter. The results of these sampling events are provided in Appendix A. The Certificate of Analysis laboratory reports are provided in Appendix D.

Three of these wells, BC-65 and BC-66 (1 and 2), are compliance points that are to be monitored semi-annually if the heap land application is discharging. BC-66(1) is the shallow of the two nested wells and was dry during both monitoring events. BC-66 (2) is the deeper well and was sampled twice.

Water levels and samples were collected on July 2019 and August 2019 for BC-66 (2) and November 2019 for KV-65. The results of the samples from these compliance wells were all well below the site specific maximum allowable concentrations specified within Clause 43 of Water Licence QZ96-007, as shown in Table 3-2.

Table 3-2: 2019 Groundwater Compliance Results

Description	Station Name		BC-65	BC-66(1)	BC-66 (2)	
	Units	QZ96-007 Standards	Land Application Piezometer	Land Application Piezometer	Land Application Piezometer (Deep Well)	
Sample Date			November 2019	July and August 2019	23 July 2019	27 August 2019
Ammonia Total	mg/L	7.5	0.25	Well was dry for both sampling events	0.07	0.001
Cyanide, Total	mg/L	1	<0.00025		-	0.0046
Cyanide, Weak Acid Dissociable	mg/L	0.125	<0.00025		0.00251	0.0021
Aluminum (Al), Dissolved	mg/L	3	0.00243		0.00138	<0.0025
Antimony (Sb), Dissolved	mg/L	0.5	0.00112		0.000372	0.00033
Arsenic (As), Dissolved	mg/L	0.25	0.000261		0.000307	<0.00025
Bismuth (Bi), Dissolved	mg/L	0.25	<0.0000025		<0.0000025	<0.0000050
Cadmium (Cd), Dissolved	mg/L	0.05	0.0000672		0.0000162	<0.000005
Chromium (Cr), Dissolved	mg/L	0.24	0.00021		<0.00005	0.00052
Copper (Cu), Dissolved	mg/L	0.1	0.00102		0.000228	<0.0002
Iron (Fe), Dissolved	mg/L	5	0.0096		0.0021	<0.005
Lead (Pb), Dissolved	mg/L	0.1	0.000036		0.0000116	<0.0001
Manganese (Mn), Dissolved	mg/L	6	0.72		0.000132	<0.0001
Molybdenum (Mo), Dissolved	mg/L	0.25	0.0133		0.000151	0.00015
Nickel (Ni), Dissolved	mg/L	0.25	0.012		0.00024	<0.0002
Selenium (Se), Dissolved	mg/L	0.3	0.0013		0.0124	0.0123
Silver (Ag), Dissolved	mg/L	0.05	<0.0000025		<0.0000025	<0.000025
Zinc (Zn), Dissolved	mg/L	0.25	0.00618	0.0005	<0.002	

3.5 IN-PIT AND HEAP EFFLUENT MONITORING STATIONS WATER QUALITY RESULTS

3.5.1 Methods

Mined out pits were used effectively as sediment control basins. Snow melt and precipitation run-off was directed to the closest inactive pit. Samples from all pits were taken from surface standing water within each pit. All monitoring and sampling were carried out by Golden Predator and Klondike H₂O, with the exception of the samples collected in August, which were collected by Yukon Government.

All samples were preserved and filtered on the day of collection, where applicable, and were kept cool until shipment to Bureau Veritas Laboratories. Samples were analyzed for the following parameters:

- Routine parameters (conductivity, pH, alkalinity, hardness, hydroxide, carbonate);
- Total suspended and dissolved solids;
- Ammonia;
- Anions (nitrite, nitrate, fluoride, sulphate, chloride, bromide, ortho-phosphate);
- Cyanide (Weak Acid Dissociable and Total); and
- Total and dissolved metals (suite of 33 metals, at low level detection limits).

3.5.2 Effluent Quality Standards

During the 2012 Mine Engineering Inspection, Brewery Creek mine was completing management of the waters stored in the ponds below the heap. Inspection of the discharge channel from the outflow of the overflow pond siphon pipe (final discharge point) has demonstrated each year that the discharge water goes to ground and does not enter any receiving surface water directly. The heap effluent now infiltrates into the ground within the reclaimed ponds which meets water licence requirements.

In 2019, no effluent was discharged from the heap or the biological treatment or overflow ponds, and as such the effluent quality standards prescribed in Clause 44 do not apply. BC-28 was not flowing as there is no discharge from pond 3: the water level was low. BC-28A is the discharge from the heap into the first pond which is by way of a valve.

The lysimeter compliance point, BC-70, is held to the same site specific maximum allowable standards as the wells, BC-65 and BC-66. The lysimeter reservoir was dry during each compliance monitoring trip and could therefore not be sampled. It is not known why BC-70 fails to accumulate water, the above ground installation has been checked for obvious damage.

3.5.3 Results

There are twelve mine water related sites that require monitoring under QZ96-007 including pit water/discharge and effluent from the heap. Seven of those twelve sites had water present. Several are

reclaimed areas that no longer have runoff or standing water. Those sites with “discharge” in their description tend to only have standing pit water.

In-pit and heap effluent samples were collected from the following stations:

- BC-10: Kokanee Pit and Dump;
- BC-12: Blue Pit;
- BC-15: Moosehead Pit;
- BC-17: Golden Pit and Dump;
- BC-51W: Pacific Pit; and
- BC-53: Laura Creek Wetland.

Stations located at BC-9 (Upper Foster Pit and Dump), BC-13 (Moosehead West Waste Dump) and BC-14 (Moosehead East Waste Dump) were removed from Water License QZ96-007 in Amendment #8 and are therefore no longer required to be monitored.

Some observations from previous sites visited:

- Lucky pit and dump sites, BC-18N and BC-18S, do not have water present. These sites have been reclaimed; BC-18N is a dry flat area and BC-18S is a grassy reclaimed hillslope with trees starting to fill in. These sites should be removed from the monitoring schedule;
- Pacific gulch, BC-16, is the overflow draining from Pacific pit. This channel is dry and appears to have been for some time. Previous evidence of spring runoff eroding the road and flowing down this gulch has been repaired, but this water would not be associated with Pacific Pit;
- BC-11, Blue Waste Dump, is a reclaimed waste rock storage area with a 0.5-metre soil cover with no signs of surface water running at any time of year, it is being rapidly reclaimed by trees;
- BC-28 observed at the waypoint for this site which is a culvert on the access road below Pond #3 (overflow pond). Pond 3 does have water but this water infiltrates rather than flowing from the pond.

3.6 BIOASSAY MONITORING

Bioassays were not collected during 2019 as the site was not actively discharging.

3.7 HYDROLOGY

Stream flow measurements for stations situated along Laura Creek, Golden Creek, Lucky Creek, Lee Creek, and Pacific Creek were conducted in 2019, where conditions allowed. Measurements were taken according to the procedures and standards described in the *Guidance Document for Flow Measurement of Metal Mining Effluents* (April 2001, EPS 2/MM/4, Mineral and Metal Division, Environment Canada), and all data are presented in Table 3-3.

Table 3-3 Summary of 2019 Stream Flow Measurements (m³/s)

Station	July 19 2019	August 27- 28 2019	September 23-25, 2019	October 28- 2019
BC-1		0.0533	0.0905	0.0346
BC-2		0.0185	0.0051	0.0146
BC-3		0.0534	0.1037	0.0850
BC-4	0.01445		0.0284	0.0094
BC-5		0.9671	0.1181	
BC-31		0.2944	0.5901	
BC-32			0.0221	
BC-33			1.629	
BC-34	1.3181		3.2670	1.2225
BC-35			0.0423	0.0252
BC-35R			0.0156	0.0132
BC-36			1.6973	
BC-37		0.0173	0.1433	0.0065
BC-39			To low to measure flow	
BC-53	Not measured	Not measured	Not measured	Not measured

Due to BC-53's difficult access, it was recommended that BC-37 become the site for BC-53. BC-37 is located a few hundred metres upstream and water quality, as well as discharge should be effectively similar.

3.8 SEDIMENT AND BENTHIC MONITORING

Water licence requirements for this site were only required sediment and benthic sampling until 2009. Golden Predator conducted sediment monitoring at select sites in August and September 2019. Sediment and benthic monitoring were last completed in 2012 as part of Golden Predator's extended baseline monitoring program at Brewery Creek. Summary tables of sediment data collected in 2019 are provided in Appendix B and a discussion of sediment results are provided in the Lower Laura Creek Impact Study (Appendix C).

3.9 LEAK DETECTION AND RECOVERY SYSTEMS

The leak detection piping and collection system remains intact but the monitoring of (LDRS) systems was discontinued in 2005, consistent with temporary closure plans and the fact the heap has been decommissioned and drained.

3.10 AIR QUALITY

No air quality monitoring for mercury emissions was conducted in 2019. Refining activities were discontinued resulting in the dismantlement of the ADR facility in 2004.

3.11 EFFECTS ON WILDLIFE

The fence constructed in June 2006 to prevent wildlife from entering the process ponds was removed in 2008 during the final reclamation of the ponds. There is no liner remaining on site to pose any wildlife entrapment risk. Among the wildlife observed throughout the year were moose, bear, wolverine, lynx, fox, and ptarmigan.

4 ADDITIONAL PLANS AND STUDIES

4.1 ADAPTIVE MANAGEMENT PLAN

As part of the Adaptive Management Plan there are actions to be taken if BC-39 exceeds the site specific maximum allowable total selenium concentration of 3.8 µg/L. BC-39 was sampled twice in 2019 (August and September) and were both below the site specific maximum allowable total selenium concentration of 3.8 µg/L.

4.2 IMPACT STUDY OF LOWER LAURA CREEK

The purpose of the study is to characterize the potential effects to lower Laura Creek and the South Klondike River resulting from the release of effluents from the project. As per Water-Use License QZ96-007 the Lower Laura Creek Impact Study is submitted every three years. The Lower Laura Creek Impact Study was conducted in 2019 and can found in Appendix C.

5 REAGENT AND WASTE MANAGEMENT

5.1 SPILL OCCURRENCE AND RESPONSE

There were no reportable spills that occurred in 2019.

5.2 REAGENT STORAGE AND HANDLING

Other than some miscellaneous laboratory chemicals, there are no reagents or chemicals in storage at the Brewery Creek Mine.

6 WATER MANAGEMENT

6.1 DIRECT RELEASE

There was no direct release of solution in 2019. Heap drainage is diverted into the barren pond (biological treatment cell) and overflows into the overflow pond where it infiltrates into the ground. The infiltrating water meets water licence discharge requirements. Heap surface water is directed to the pregnant pond (now sediment settling pond) where it likewise infiltrates into the ground. In 2019, no effluent was discharged from the heap or the biological treatment or overflow ponds, and as such the effluent quality standards prescribed in Clause 44 do not apply. Sites BC-28, 28a, and 28b were visited and sampled in July, September, October and November 2019, Results of the sampling is provided in Appendix A.

The 2018 inspection indicated that the process ponds were intact with no signs or erosion or overtopping and that no remedial action was required.

7 GEOTECHNICAL INVESTIGATION

In 2019 Golden Predator conducted some preliminary inspections of the heap infrastructure, which included locating all 7 drainage silos, uncovering them and performing visual inspections by Golden Predator personnel; no noticeable damage was visible, and they appeared to be in working order. All silos were covered and winterized after the GPY inspection.

Golden Predator began removing cover material (approximately 55,000 m³) from the heap leach pad and placed it into winrows on top of the pad. Approximately 60% of this material has been hauled and stockpiled to east of pad in cover material storage site.

A geotechnical inspection was not completed at Brewery Creek in 2019, as the mine shifted from reclamation to re-start activities

A geotechnical engineering inspection was conducted on site in 2018 by Adam Wallace, P. Eng. of Tetra Tech EBA Inc. and can be found in the 2018 Annual Report.

8 CONCLUSION

A summary of the key points of this report are as follows:

- There was no direct release of solution in 2019. The heap drainage is diverted into the barren pond which passes into the overflow pond where it infiltrates into the ground. Heap surface water is directed to the pregnant pond (now sediment settling pond) where it likewise infiltrates into the ground. The ponds are partially filled as precipitation and run-off is greater than the infiltration rate. As there was no discharge in 2018 the BC-28, 28a, or 28c samples did not trigger the effluent quality standards in Clause 44.
- Water Licence QZ96-007 specifies three compliance points for surface water quality:
 - BC-34 must meet CCME Guidelines for the Protection of Aquatic Life. BC-34 had an exceedance of selenium. However, background water quality has been shown to have exceedances indicating elevated levels occur naturally.
 - BC-31 must meet CCME Guidelines for the Protection of Aquatic Life. There were exceedances of selenium, iron and aluminum. However, background water quality has been shown to have exceedances indicating elevated levels occur naturally.
 - BC-39 was below the SSWQG during both sampling events in August and September 2019.
- The wells BC-65 and BC-66 (1/2), are compliance points for the site. The results of BC-66 and BC-65 were all below the site specific maximum allowable concentrations specified within Clause 43 of Water Licence QZ96-007.

- The lysimeter compliance point, BC-70, is held to the same site specific maximum allowable standards as the wells, BC-65 and BC-66. The lysimeter reservoir was dry during each compliance monitoring trip and could therefore not be sampled.

9 REFERENCES

Canadian Council of the Ministers of the Environment, 2017. *Canadian Water Quality Guidelines for the Protection of Aquatic Life*.

Environment Canada (EC), 2001. *Guidance Document for the Sampling and Analysis of Metal Mining Effluents (EPS 2/MM/5 – April 2001)*

APPENDIX A

WATER QUALITY DATA SUMMARY

Brewery Creek Mine
2019 Monitoring Water Quality Assessment

February 28, 2020

Prepared for:

GOLDEN PREDATOR EXPLORATION LTD.

TABLE OF CONTENTS

1.	INTRODUCTION.....	3
1.1	SCOPE	4
2.	SURFACE WATER QUALITY MONITORING PROGRAM	6
2.1	EFFLUENT QUALITY STANDARDS AND WATER QUALITY GUIDELINES.....	6
3.	WATER QUALITY RESULTS.....	8
3.1	LUCKY AND GOLDEN CREEKS.....	8
3.1.1	Selenium	9
3.1.2	Antimony	9
3.1.3	Arsenic	10
3.1.4	Lucky and Golden Creeks Summary	11
3.2	LEE AND PACIFIC CREEKS	11
3.2.1	Selenium	12
3.2.2	Antimony	13
3.2.3	Arsenic	14
3.2.4	Zinc, Copper, and Lead	15
3.2.5	Nitrate.....	16
3.2.6	Lee and Pacific Creeks Summary.....	16
3.3	LAURA AND CAROLYN CREEKS	17
3.3.1	Selenium	17
3.3.2	Arsenic	18
3.3.3	Zinc.....	19
3.3.4	Copper	20
3.3.5	Total suspended solids	21
3.3.6	Nitrate.....	22
3.3.7	Laura and Carolyn Creeks Summary	23
3.4	SOUTH KLONDIKE RIVER.....	23
3.5	GROUNDWATER QUALITY.....	24
3.5.1	Heap Pad Groundwater Monitoring.....	24
3.5.2	Land Application Area Groundwater Monitoring.....	24
3.5.3	Blue WRSA Groundwater Monitoring	24
3.6	HEAP EFFLUENT WATER QUALITY.....	25
4.	SUMMARY.....	26
5.	REFERENCES.....	26

LIST OF TABLES

Table 1-1: Sample Collection Dates and Sites for 2019 Monitoring Season.....	4
Table 2-1 Relevant Canadian Water Quality Guidelines	7
Table 2-2 Effluent Quality Standards (mg/L), Water License QZ96-007	8
Table 3-1 WQ Stations on Lucky and Golden Creeks	8
Table 3-2 WQ Stations on Lee and Pacific Creeks	12
Table 3-4 WQ Stations on Laura and Carolyn Creeks.....	17

LIST OF FIGURES

Figure 1-1 Water Quality Monitoring Station Locations	5
Figure 3-1 Selenium Concentrations on Lucky and Golden Creeks (1992-2019)	9
Figure 3-2 Antimony Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.....	10
Figure 3-3 Arsenic Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.	11
Figure 3-4 Selenium Concentrations on Lee and Pacific (1992-2019)	13
Figure 3-5 Antimony Concentrations on Lee and Pacific Creeks (1991-2019) Note Log Scale	14
Figure 3-6 Arsenic Concentrations on Lee and Pacific Creeks (1991-2019). Note Log Scale	15
Figure 3-7 Nitrate Nitrogen Concentrations on Lee and Pacific Creeks (1991-2019). Note Log Scale	16
Figure 3-8 Selenium Concentrations on Laura and Carolyn Creeks (1992-2019). Note Log Scale.....	18
Figure 3-9 Arsenic Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.	19
Figure 3-10 Zinc Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.	20
Figure 3-11 Copper Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.....	21
Figure 3-12 Total Suspended Solids Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.	22
Figure 3-13 Nitrate as N Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.....	23

LIST OF APPENDICES

- APPENDIX A. 2019 SW AND GW TABULATED DATA**
- APPENDIX B. SURFACE WATER DATA PLOTS**
- APPENDIX C. GROUNDWATER DATA PLOTS**

1. INTRODUCTION

Mining activities were carried out at the Brewery Creek Mine over a five-year period between 1996 and 2000 by Loki Gold Corp. and Viceroy Resource Corp. Brewery Creek originally operated under Water Use Licence (WUL) QZ94-003, issued in August 1995 and under Quartz Mining License (QML) A99-001 issued in June 1999. Brewery Creek ceased active mining operations in September of 2000 and no additional ore was added to the heap leach after this date. Active cyanide leaching of the heap leach pad continued until December 2001. Detoxification of the heap leach was completed in the second and third quarters of 2002 with some release of detoxified waters over 2002 and 2003 and regular post temporary closure monitoring. In March 2005, licences and permits were transferred, from Viceroy to Alexco Resource Corp. In 2012 Golden Predator Corp. (now Golden Predator Exploration Ltd.) purchased the Brewery Creek property from Alexco with the intent of restarting the mine.

The subject of this report is an examination of the results of the 2019 water quality monitoring program carried out by Golden Predator at the Brewery Creek Mine pursuant to the conditions of the water licence WL QZ96-007-15. The results and discussion herein include results of all sampling carried out over the course of the mine life, including a discussion of the 2019 data relative to historical conditions. The 2019 monitoring program reflects the current post-closure phase of the mine life.

The principal receiving creeks in the Brewery Creek Mine area are Lee Creek, Laura Creek, and Golden Creek which are tributaries of the South Klondike River. Three additional creeks are included in this assessment: Pacific Creek, Carolyn Creek, and Lucky Creek, the main tributaries to Lee, Laura and Golden Creeks, respectively (Figure 1-1)

Lee Creek and Pacific Creek both occur in the northwest portion of the Brewery Creek property. Lee Creek headwaters originate 46 kilometres north of the property and flow due south, converging with Pacific Creek east of the property, eventually flowing into the South Klondike River. Pacific Creek headwaters originate immediately north of the mine in two separate forks, which converge and flow southwest into Lee Creek.

Laura and Carolyn Creeks receive runoff from a total combined area of 30.5 km². Flow in the upper reaches of these creeks is seasonal, while lower Laura Creek flows year-round with the exception of occasional freezing in winter. Carolyn Creek joins Laura Creek roughly two kilometres from its headwaters, with both eventually flowing to the South Klondike River via a wetland area in lower Laura Creek. Laura and Carolyn Creeks were the historical receivers of mine effluents discharged from the Brewery Creek heap leach pad both during mining activities and post-closure reclamation. The leach pad and ponds were situated within the boundary of the two watersheds, and a land application system was employed during post- closure drain-down of the heap over the watershed boundary separating the streams.

The historical workings consist of seven open pit areas (nine pits total), which influenced the receiving watersheds variously. The following pits were worked during the past phase of mining at Brewery Creek:

- Pacific;
- Blue;
- West Canadian;
- Canadian;
- Upper Fosters;
- Lower Fosters;
- Kokanee;

- Golden; and
- Lucky.

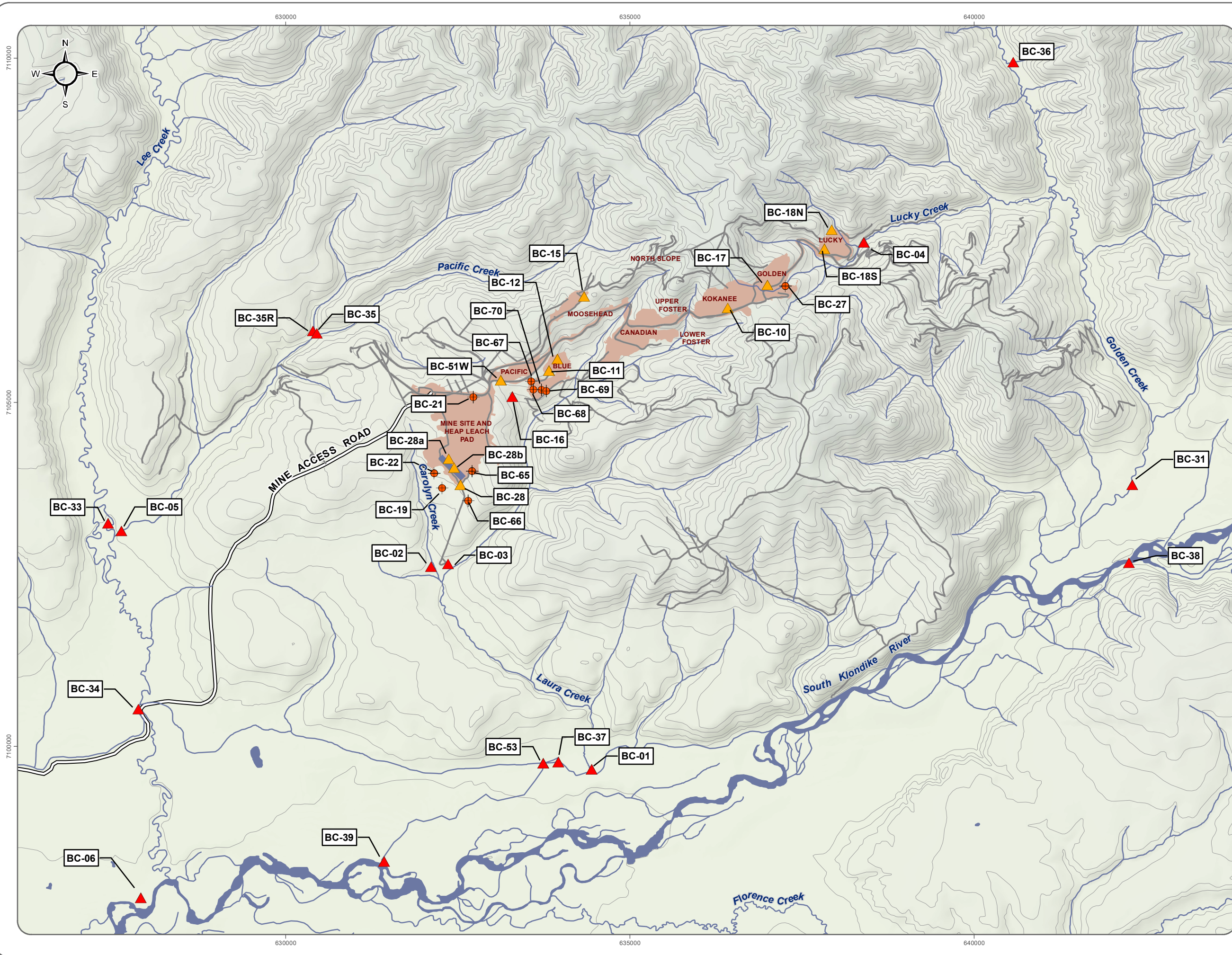
The majority of mining occurred in the Laura Creek drainage; the Pacific, Blue, Canadian, Fosters and Kokanee developments, as well as a significant portion of the Moosehead development and the heap leach facility are all located within the Carolyn and Laura Creek watersheds. The Golden and Lucky developments lie within the Lucky Creek watershed, while the Moosehead pit also lies partially within the Pacific Creek catchment.

1.1 SCOPE

As of 2019, under Water-Use License QZ96-007, compliance monitoring of surface and groundwater is annual, with the exception of five sites which are semi-annual. Golden Predator elected to add monthly monitoring at select surface water sites starting in September 2019. Water quality data was collected during July, August, September, October, November, and December 2019, and the detailed sample collection dates and sites are described in Table 1-1.

Table 1-1: Sample Collection Dates and Sites for 2019 Monitoring Season

Sampled by	Date	Sites Sampled
Golden Predator	July 15, 22-24, 2019	BC-04, BC-10, BC-12, BC-15, BC-17, BC-19, BC-21, BC-22, BC-27, BC-28, BC-28a, BC-28b, BC-34, BC-51W, BC-66, BC-67, BC-69
Golden Predator and Yukon Government	August 27-28, 2019	BC-01, BC-02, BC-03, BC-10, BC-17, BC-17a, BC-32, BC-66, LAURA-0.15, LAURA-US, LUCKY-DS, LUCKY-RD, LUCKY-TRIB, LUCKY-US
Golden Predator	September 23-24, 26, 2019	BC-01, BC-02, BC-03, BC-04, BC-10, BC-12, BC-15, BC-17, BC-28, BC-28a, BC-28b, BC-34, BC-37, BC-51W
Golden Predator	October 28-30, 2019	BC-01, BC-02, BC-03, BC-04, BC-06, BC-10, BC-12, BC-15, BC-17, BC-28, BC-28a, BC-28b, BC-32, BC-34, BC-35, BC-35R, BC-37, BC-38, BC-51W
Golden Predator	November 24-26, 2019	BC-04, BC-05, BC-06, BC-28, BC-28a, BC-28b, BC-31, BC-33, BC-34, BC-35, BC-35r, BC-36, BC-38, BC-51W, BC-65
Golden Predator	December 16-17, 2019	BC-04, BC-05, BC-06, BC-15, BC-33, BC-34, BC-35, BC-35R, BC-38

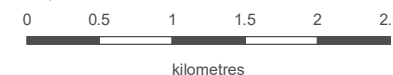


BREWERY CREEK MINE

FIGURE 1-1
WATER QUALITY MONITORING STATIONS

- ▲ Surface Water
- Groundwater
- ▲ In-pit and Heap Water
- Watercourse
- Waterbody
- Access Road
- Other Roads/Trails
- Mine Area
- Contour (100 m interval)

1:52,000 when printed on 11 x 17 inch paper



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Reproduced under license from Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources Canada. All rights reserved.

NAD 83 UTM Zone 7N

This drawing has been prepared for the use of Ensero Solution's client and may not be used, reproduced or relied upon by third parties, except as agreed by Ensero Solutions and its client, as required by law or for use of governmental reviewing agencies. Ensero Solutions accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Ensero Solutions express written consent.

2. SURFACE WATER QUALITY MONITORING PROGRAM

Environmental monitoring at Brewery Creek transitioned to the post-closure monitoring phase in 2005. Environmental monitoring under QZ96-007-15 has been reduced gradually since 2005 to be commensurate with the expected level of site activity. The current monitoring stations and frequency are defined by Schedule B-3 (2015 to 2021), which includes annual monitoring of 26 locations, where conditions allow, and semi-annual monitoring at 5 stations, depending on site conditions.

In 2019 surface water quality sampling was conducted more frequently than required by the water licence, with surface water sampling collected monthly from July to December. The tabulated results from sampling conducted in 2019 are provided in Appendix A.

2.1 EFFLUENT QUALITY STANDARDS AND WATER QUALITY GUIDELINES

Clause 46 of Water Licence QZ96-007 states that:

“Water quality at monitoring stations BC-31, BC-34 and BC-39 shall not exceed the water quality guidelines specified for the protection of aquatic life contained in the Canadian Environmental Quality Guidelines prepared by the Canadian Council of Ministers of Environment, as amended from time to time.”

As such, for the receiving water quality data assessment, water quality parameters were screened against Canadian Water Quality Guidelines for Protection of Aquatic Life (CWQG; CCME 2012) (Table 2-1). Some water quality guidelines vary on the basis of water hardness (e.g., copper, lead; CCME 2012).

Table 2-1 Relevant Canadian Water Quality Guidelines

Parameter	Units	Guideline	
		Source	Value
Aluminum - Total ^a	µg/L	CCME	100
Antimony - Total	µg/L	PWQO	0.02
Arsenic - Total	µg/L	CCME	5
Cadmium - Total ^b	µg/L	CCME	$10^{0.83[\log_{10}(\text{hardness})]-2.46}$
Chromium - Total	µg/L	CCME	1
Copper - Total	µg/L	CCME	$e^{0.8545[\ln(\text{hardness})]-1.465} * 0.2$
Cyanide - WAD	µg/L	CCME	5
Iron - Total	µg/L	CCME	300
Lead - Total	µg/L	CCME	$e^{1.273[\ln(\text{hardness})]-4.705}$
Mercury - Total	µg/L	CCME	0.026
Molybdenum - Total	µg/L	CCME	73
Nickel - Total	µg/L	CCME	$e^{0.76[\ln(\text{hardness})]+1.06}$
Nitrate Nitrogen	µg/L	CCME	3000
Selenium - Total	µg/L	CCME/SSWQS	1/3.8
Silver - Total	µg/L	CCME	0.25
Thallium - Total	µg/L	CCME	0.8
Zinc – Dissolved ^c	µg/L	CCME	$e^{(\ln(\text{hardness})-0.851(\text{pH})+0.398(\text{DIC})+4.625)}$
pH	pH units	CCME	6.5 - 9.0

^a If pH ≥ 6.5

^b Cadmium has two guidelines: one for short term exposure and one for long term exposure. Only the long-term guideline is presented here as it is the most conservative.

^c The guideline applies to dissolved zinc and the formula presented is valid for hardness between 23.4 mg and 399 of CaCO₃/L, pH of 6.5 to 8.13 and dissolved organic carbon between 0.3 and 22.9 mg/L. When DOC was unavailable, the 2019-year average was used. When a parameter was outside the range for the calculation, the upper or lower limit was used.

In addition to the CCME guideline, Laura Creek at station BC-39 has an established site-specific selenium criterion of 0.0038 mg/L as defined as per Clause 38(d) of Water Licence QZ96-007. Furthermore, the Laura Creek AMP (2004) indicated the company would also use a site-specific selenium water quality objective (SSWQO) of 0.0038 mg/L at Laura Creek station BC-53. Therefore, this report includes the use of the SSWQO guideline for comparison on the Laura Creek and Carolyn Creek watersheds.

For the receiving environment water quality assessment, a reference condition has also been established using pooled reference data for the Brewery Creek region collected between 2008 and 2012. These values reflect the upper limit on the range of variability in the region and can be used together with CCME guidelines and Water Licence standards, or where guidelines and standards are not available or appropriate. These reference guidelines are used in this report for comparison and assessment of the Lee Creek and Golden Creek watersheds. It has been determined that these reference conditions are not appropriate for use in the Laura Creek watershed, where reference data were not available for use in developing the reference condition.

For effluent and groundwater monitoring stations relating to heap effluent discharge via direct discharge and groundwater infiltration, water quality results were screened against the effluent quality standards established in Clause 42, 43 and 44 of WL QZ96-007 (Table 2-2). Clauses 42 and 44 of the licence refer to standards for heap discharges either via land application or directly to surface water, respectively. Clause 43 refers to standards for groundwater stations immediately down gradient of the heap.

Table 2-2 Effluent Quality Standards (mg/L), Water License QZ96-007

Parameter	Maximum Concentration (mg/L)		
	Clause 42	Clause 43	Clause 44
WAD Cyanide	0.25	0.125	0.25
Total Cyanide	2.0	1.0	2.0
Ammonia (as N)	15.0	7.5	5.0
Copper	0.5	0.1	0.2
Arsenic	0.5	0.25	0.5
Antimony	1.0	0.5	1.0
Mercury	0.005	0.0025	0.005
Zinc	0.5	0.25	0.5
Selenium	0.75	0.3	0.25
Lead	0.2	0.1	0.2
Aluminum	1.0	3.0	1.0
Bismuth	0.5	0.25	0.5
Cadmium	0.1	0.05	0.1
Chromium	0.5	0.25	0.5
Iron	1.0	5.0	1.0
Manganese	2.0	6.0	2.0
Molybdenum	0.5	0.25	0.5
Nickel	0.8	0.25	0.5
Silver	0.1	0.05	0.1
pH	-	-	6.0 to 9.5
Suspended Solids	-	-	50

3. WATER QUALITY RESULTS

The following sections address the three main watersheds and tributaries in the project area, which are each assessed in relation to the benchmark concentrations selected for this assessment (CCME and reference condition) as well as by summary statistics and trends in the data. The report focusses on the 2019 data in relation to historical results. At the end of each watershed chapter, the discussion expands to identify issues more broadly associated with each watershed on the whole, and summary remarks are made. All water quality data for surface water, groundwater, and in-pit water are presented in summary tables within Appendix A, and the 2019 surface water and groundwater data are plotted with the historic data collected in Appendix B and C, respectively.

3.1 LUCKY AND GOLDEN CREEKS

A total of three stations (Table 3-1) were established on Lucky and Golden Creek catchments to determine and assess water quality characteristics. BC-04 is located on Lucky Creek below all mine related developments, and thus reflects the cumulative impact of all mining activities on that stream. Two stations are located on Golden Creek, one upstream of the confluence with Lucky Creek (BC-36), and the other downstream of it (BC-31). Monitoring at BC-31 began in 1991, before the commencement of mining, while monitoring at BC-04 began in 1995, shortly before mining commenced. BC-36 has been monitored periodically, beginning in 1996 for a year, and resuming again in mid-2007 until 2014. BC-36 was sampled in September and October 2019.

Table 3-1 WQ Stations on Lucky and Golden Creeks

Stations on Lucky and Golden Creeks		Included in Assessment
BC-36	Golden Creek upstream of Lucky Creek	Yes
BC-31	Golden Creek downstream of Lucky Creek	Yes
BC-04	Lucky Creek d/s from Lucky Pit	Yes

3.1.1 SELENIUM

Selenium concentrations exceeded the CCME guideline (0.001 mg/L) in all samples and at all sites on Lucky and Golden Creeks in 2019. Data collected during monitoring prior to 2004 was confounded by the presence of high MDLs. Lower detection limits were used in recent years, which confirmed that both background and receiving waters exceeded the CCME guideline. Indeed, selenium concentrations measured in Golden Creek upstream of mine related developments (BC-36) were often higher than those measured downstream (BC-31), indicating the selenium concentrations are naturally elevated. In 2019, both samples collected from background station, BC-36 (0.0021 mg/L, September 2019 and 0.0024 mg/L, November 2019), were higher than the corresponding downstream samples (0.0016 mg/L September 2019 and 0.0022 mg/L, November 2019). Trends for selenium show no change over the last decade (see Figure 3-1).

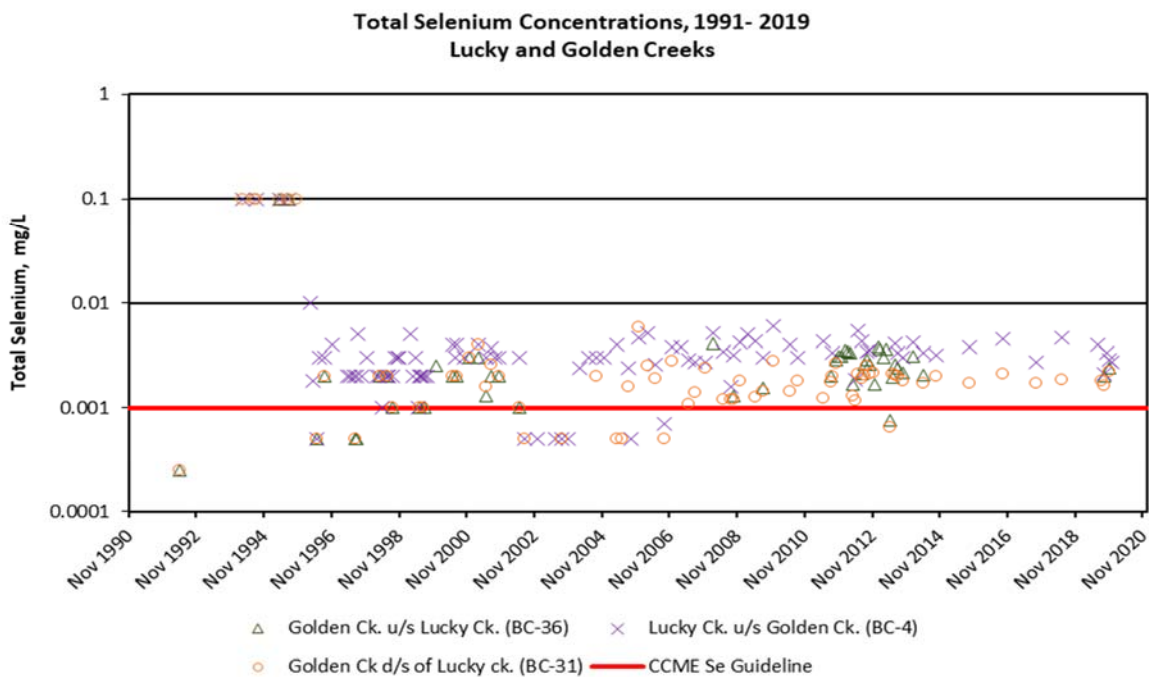


Figure 3-1 Selenium Concentrations on Lucky and Golden Creeks (1992-2019)

3.1.2 ANTIMONY

Antimony concentrations at the background station on Golden Creek (BC-36) were typically lower than at the downstream receiving environment station (BC-31), as shown on Figure 3-2. Concentrations of antimony were higher in Lucky Creek (mean background concentration at BC-36 were approximately 20-fold lower than the concentration at BC-04), suggesting that Lucky Creek is likely the primary source of antimony entering Golden Creek.

Antimony results at BC-31 have remained relatively constant throughout the pre-mining, mining, and decommissioning and reclamation phases of the mine life, indicating that antimony concentrations may not have been impacted greatly by mining activities. Moreover, concentrations at BC-31 (0.0002 to 0.0025 mg/L) have remained well below the Ontario preliminary water quality objective (PWQO) for antimony (0.020 mg/L).

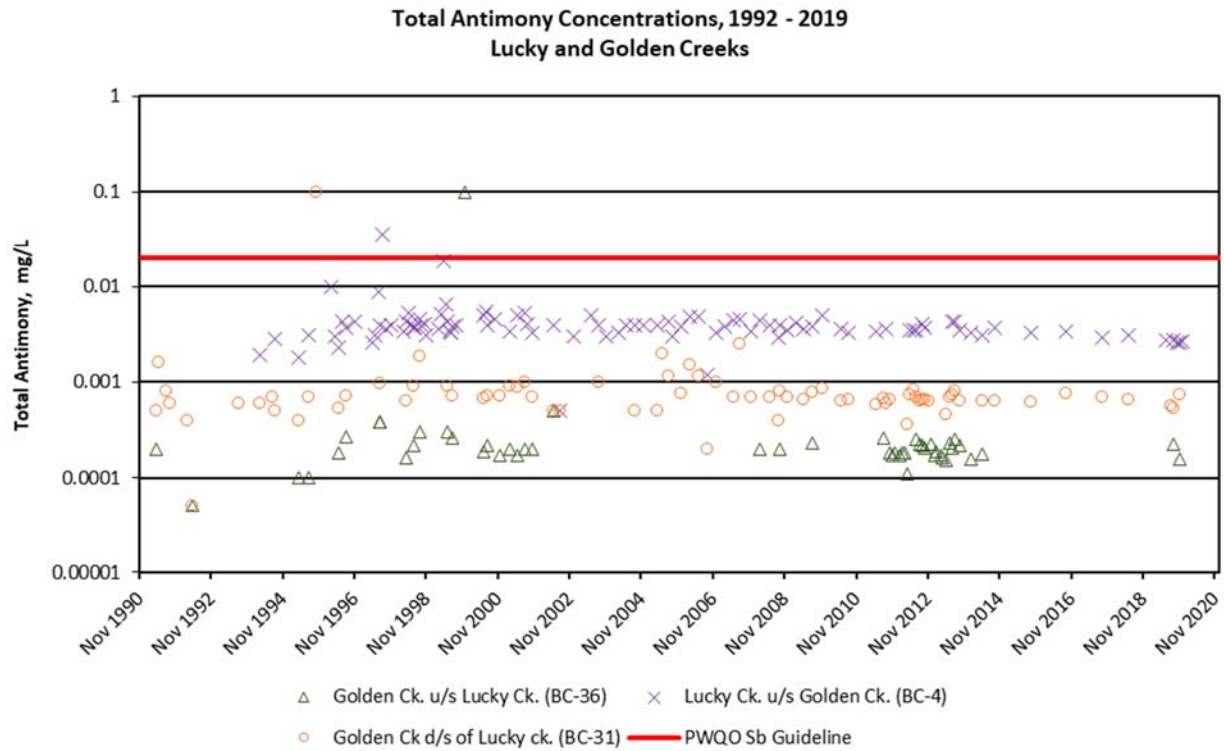


Figure 3-2 Antimony Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

3.1.3 ARSENIC

Arsenic concentrations in Golden and Lucky Creek exhibited a similar pattern to antimony, with the data suggesting that Lucky Creek was the primary source of arsenic to Golden Creek, as shown on Figure 3-3. Arsenic concentrations were consistent through all three mine phases. Results at BC-04 ranged from 0.0010 to 0.1680 mg/L, exceeding the CCME guideline (0.005 mg/L) in approximately 40% of all samples collected. In 2019, BC-04 exceeded the CCME guideline in three of the five samples collected, in July (0.00675 mg/L), October (0.00519 mg/L) and December (0.0055 mg/L).

No CCME exceedances of arsenic were observed in Golden Creek in 2019. Arsenic concentrations over time in Golden Creek (BC-36 and BC-31) have largely remained below the CCME guideline.

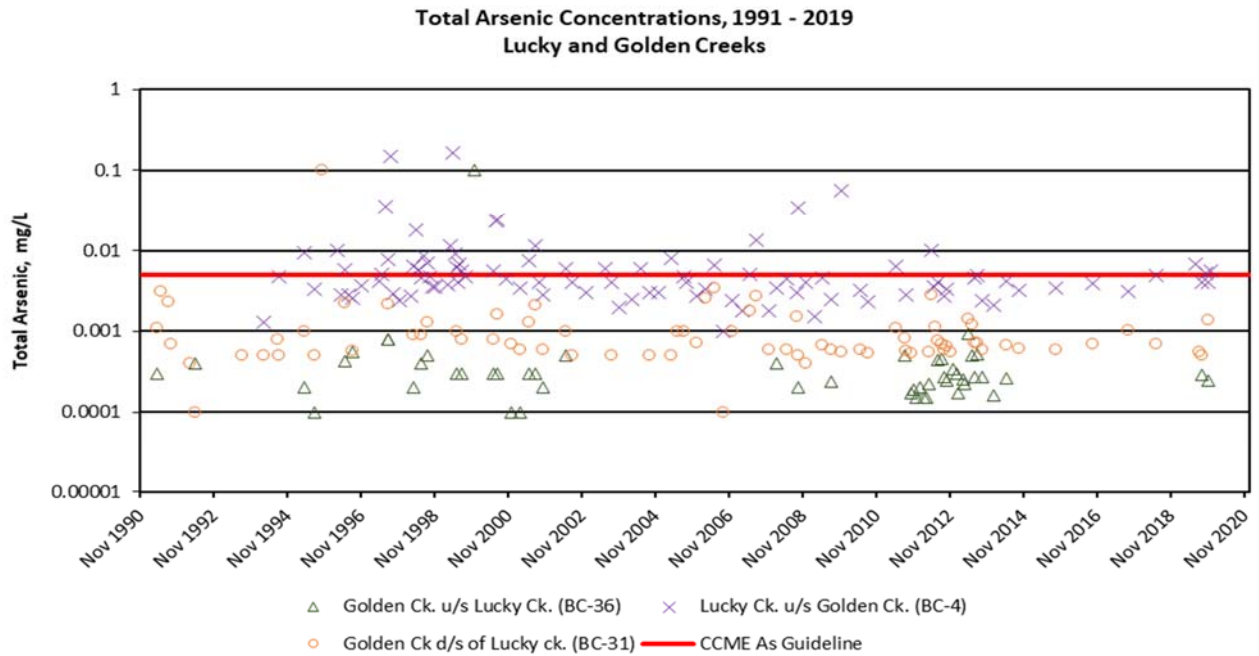


Figure 3-3 Arsenic Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

3.1.4 LUCKY AND GOLDEN CREEKS SUMMARY

Water quality data collected in the Lucky and Golden Creek watershed was relatively stable for the major parameters assessed in this report, or those regulated under QZ96-007. Data for all parameters assessed were generally at or below CCME guidelines with the exception of selenium, which appears to be naturally elevated in this region.

Additional parameters zinc, copper, lead, total suspended solids and nitrate are presented graphically in Appendix B for Lucky and Golden Creeks.

3.2 LEE AND PACIFIC CREEKS

Five water quality monitoring stations were established between Lee and Pacific creeks; two on Lee Creek and three on Pacific Creek, as reported in Table 3-2. Each creek contains one reference station, and at least one receiving environment station. The reference stations were used in establishing the reference benchmark for the watershed, while the receiving stations are assessed here relative to those benchmarks.

Station BC-35 on Pacific Creek was impacted by previous developments in the northern region of the property, including the Moosehead pit; however, station BC-05 is better situated to represent the cumulative downstream impacts of mining on this Creek. Additionally, data are not available for BC-35 earlier than 2008, which limits the usefulness of this station for background information. As such, BC-35 was not used or considered in this assessment.

In August 2011, a new reference station (BC-35R) was established on the north branch Pacific Creek as a result of a lack of available background data for this stream. Data collected at this station were used in establishing the reference conditions.

Table 3-2 WQ Stations on Lee and Pacific Creeks

Stations on Pacific Creek and Lee Creek		Included in Assessment
BC-35R	Pacific Creek Reference Station	No
BC-33	Lee Creek Reference Station	No
BC-35	Pacific Creek below Leach Pad	No
BC-05	Pacific Creek before confluence w/ Lee Creek	Yes
BC-34	Lee Creek below confluence w/ Pacific Creek	Yes

3.2.1 SELENIUM

The interpretation of selenium results obtained from Lee and Pacific Creeks were confounded by the occurrence of high MDLs for the entire dataset, and zero values on some early dates prior to mining. The typical MDL observed was 0.001 mg/L, which precludes an interpretation of the data with respect to the CCME guideline (also 0.001 mg/L). Although it is known that these values are below the CCME guideline of 0.001 mg/L, it is not known to what degree. In addition, among all other results only two show values higher than a practical quantitative limit set at three times the MDL. These results can be seen in Figure 3-4 as a flat line in the data series prior to 2002 and vary after that date. In the presence of high MDLs and lacking additional information, it is unclear at what rate selenium results exceed the CCME guideline, or to what degree they are below.

Despite these challenges, the pooled reference dataset for 2008 – 2015 provided insight into background conditions for the watershed. Selenium is one of two parameters, the other being copper, for which the reference condition was higher than the CCME guideline, and therefore a more appropriate benchmark for comparison.

Of all observations, only two were higher than the reference condition (0.036 mg/L), both in 2008, as shown Figure 3-4, leading to a low rate of results exceeding the benchmark. Also notable was the low variability in selenium concentrations over the entire record; results were generally at or near the MDL for all samples collected. None of the results obtained in 2019 exceeded the reference condition in the downstream receiver on Lee Creek (BC-34), although the results were in excess of the CCME guideline (0.01 mg/L).

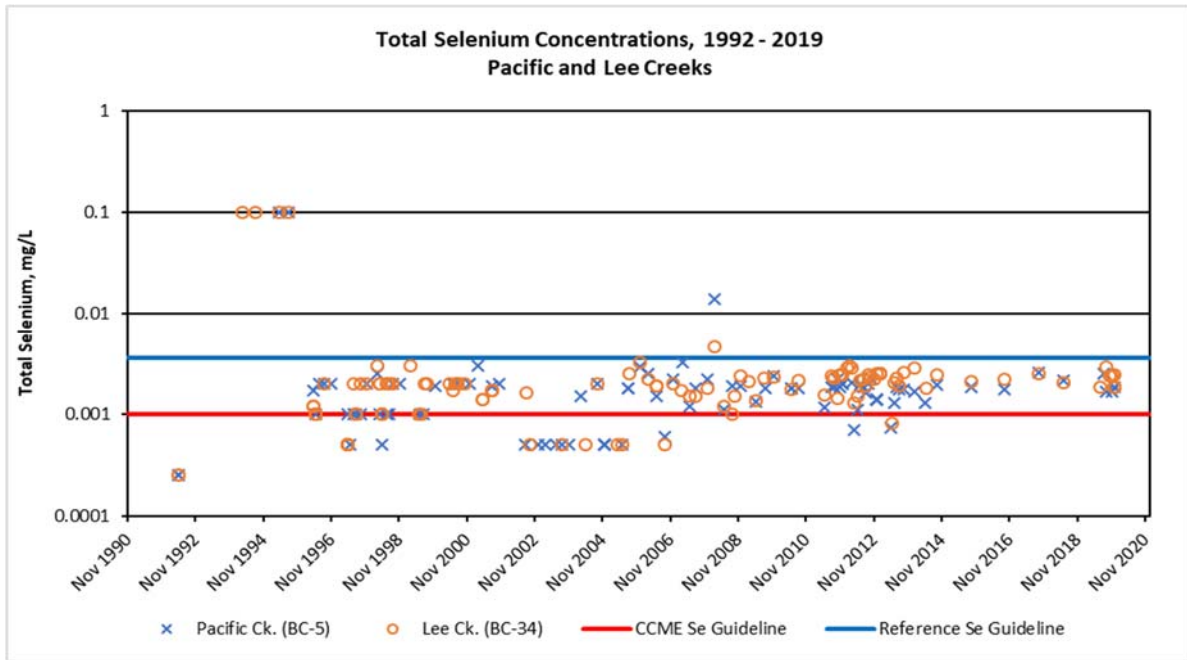


Figure 3-4 Selenium Concentrations on Lee and Pacific (1992-2019)

3.2.2 ANTIMONY

Antimony results were not generally problematic with respect to high MDLs, except over one period at each station (BC-34: mid-2002 through mid-2005; BC-05: 2002 through mid-2005). In these cases, MDLs were higher than the reference concentration, but lower than the Ontario PWQO guideline (0.02 mg/L). Overall concentrations showed little variability from the 0.0003 mg/L reference benchmark, or between non-mining, mining, and reclamation periods, as shown on Figure 3-5. The median at both stations BC-05 (0.000474 mg/L) and BC-34 (0.00026 mg/L) was less than the Ontario PWQO by two orders of magnitude.

None of the results obtained in 2019 exceeded the Ontario PWQO for antimony in the downstream receiver on Lee Creek. In Pacific Creek, antimony exhibited consistently higher results at the downstream receiver station than the reference benchmark, including during pre-mining.

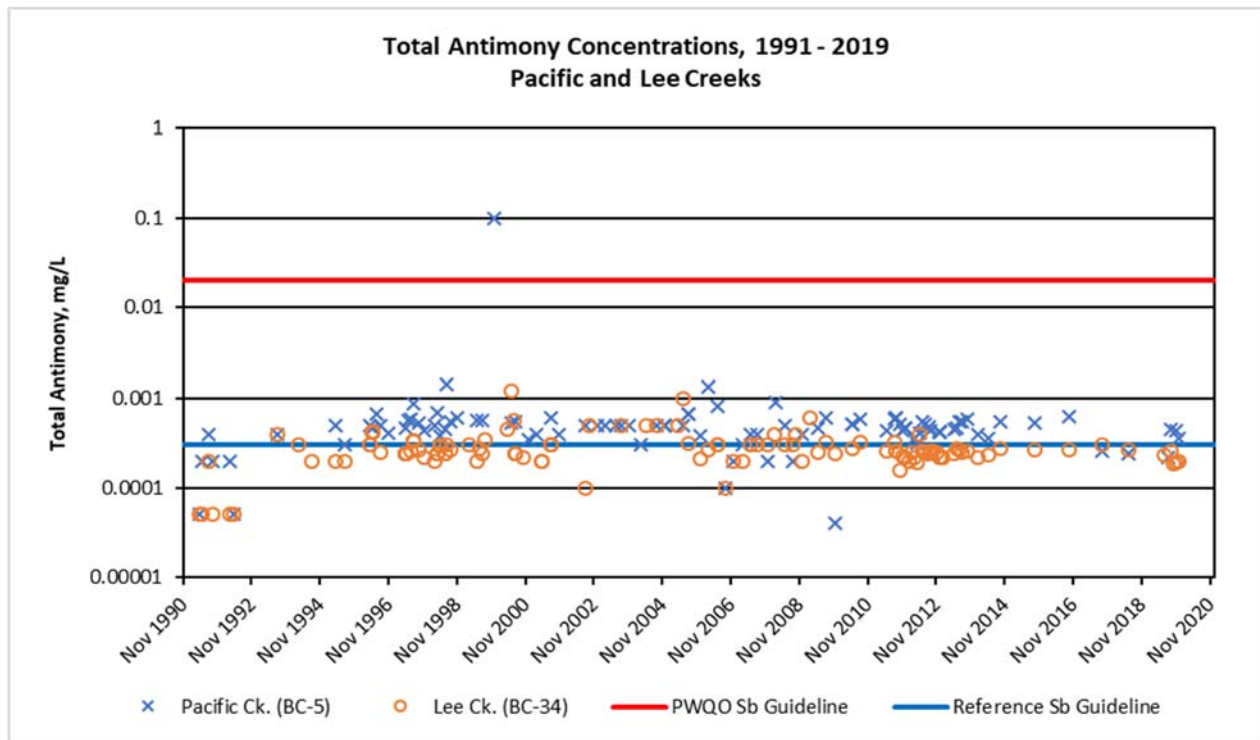


Figure 3-5 Antimony Concentrations on Lee and Pacific Creeks (1991-2019) Note Log Scale

3.2.3 ARSENIC

In 2019, all samples from Lee and Pacific Creek were below the reference condition concentration, and an order of magnitude below the CCME arsenic guideline. Arsenic exceeded the reference condition concentration (0.001 mg/L) in less than 10% of samples in Pacific Creek during the mining and decommissioning and reclamation phases, and in Lee Creek during the decommissioning phase. It did not exceed the reference in Pacific Creek on any occasions prior to mining, as shown on Figure 3-6.

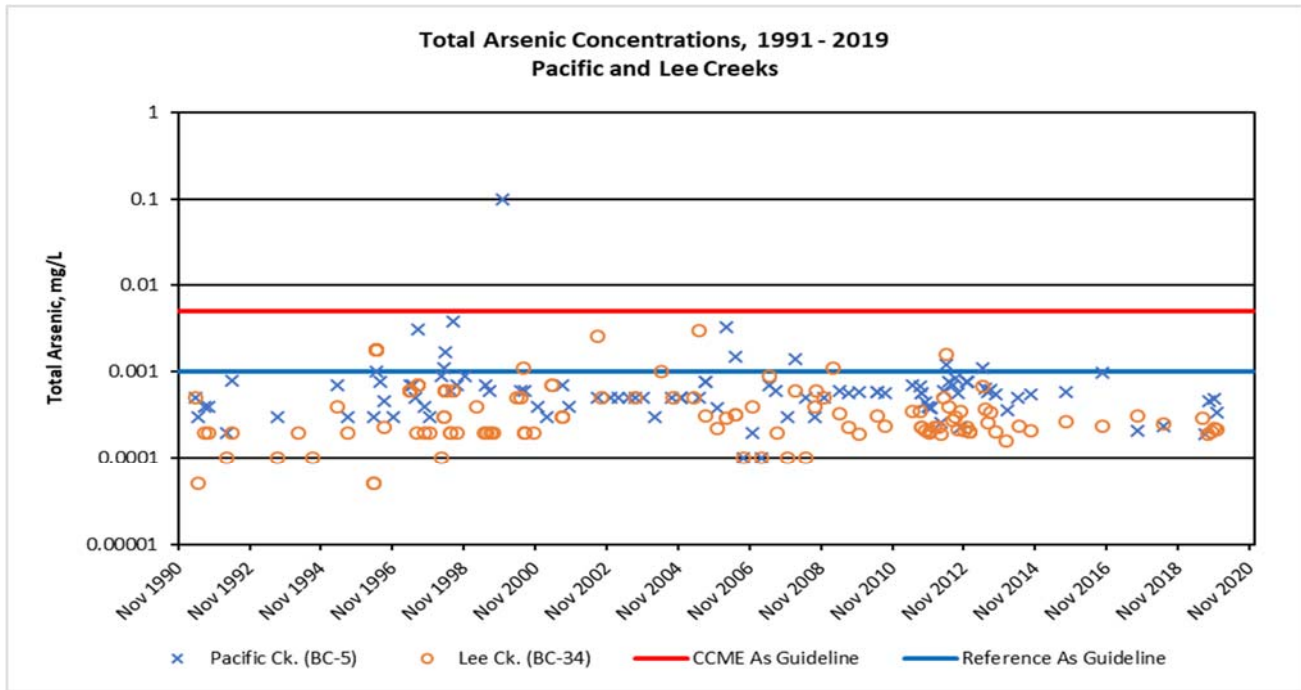


Figure 3-6 Arsenic Concentrations on Lee and Pacific Creeks (1991-2019). Note Log Scale

3.2.4 ZINC, COPPER, AND LEAD

In Lee Creek, it was noted that zinc, copper, and lead occasionally exceeded reference condition concentrations (0.026 mg/L, 0.004 mg/L, 0.0006 mg/L, respectively) (4%, 16%, and 18% of the time, respectively). Zinc and copper also occasionally exceeded (4% and 13% of the time, respectively) their CCME guidelines. However, these elements do not generally pose a threat in Lee Creek, as higher-than-reference concentrations occurred both prior to and after production activities began in 1996.

In Pacific Creek, lead exceeded the reference condition concentration <10% of the time during pre-mining and mining conditions, but not during decommissioning and reclamation. Copper was found to exceed the reference condition concentration <10% of the time only during pre-mining conditions. The pre-mining variability of zinc, copper and lead in Lee Creek, and of copper and lead in Pacific Creek above the reference condition indicate that these elements did not affect these watersheds as a result of mining. Moreover, the reference condition concentrations for both zinc and lead are below CCME guidelines.

All copper, lead, and zinc concentrations sampled in 2019 were all below their respective CCME guidelines, with the exception of one outlying dissolved zinc concentration from December 2019. The sample collected on 16 December 2019 returned a dissolved zinc concentration of 0.0867 mg/L, higher than the calculated guideline of 0.0217 mg/L. This single value is unusual and likely a filtration error as it is almost an order of magnitude higher than all other zinc data collected from BC-34 since pre-mining (1994), and the corresponding total concentration (0.0106 mg/L) is significantly lower than the dissolved. The plots detailing the trend data are provided in Appendix B.

3.2.5 NITRATE

Nitrate-N concentrations in Lee and Pacific Creeks (ranging from 0.005 mg/L to 2.1 mg/L and 0.005 mg/L to 1.4 mg/L, respectively) were well below the CCME guideline (3 mg/L), as shown on Figure 3-7, during pre-mine, mining, and decommissioning and reclamation phases.

In 2004, a fire occurred at the Brewery Creek Mine primarily within the Laura and Carolyn Creek watersheds, but also affected the Lee and Pacific Creek watersheds to a lesser extent. Fire-caused changes in nutrient accessibility can have enormous effects on the downstream environment; in particular, fires have a great influence on nitrate concentrations, as the availability of this nutrient increases following forest fires. The post-fire flush of inorganic nitrogen is not solely due to the physical breakdown of plant and animal tissues by fire; it is also a function of the enhanced activity of microbes in the warmer and more alkaline soil of a recently-burned forest.

Nitrate results in Pacific Creek, and to a lesser extent in Lee Creek, showed a minor spike in the years after the fire. Increased nutrient availability may be responsible for the high values observed in Pacific Creek in 2007, 2008 and 2014, and may be responsible for the increase in overall concentrations of nitrate on Lee Creek. None of the results obtained in 2019 exceeded the CCME guideline for nitrate in the downstream receiver on Lee Creek or on Pacific Creek.

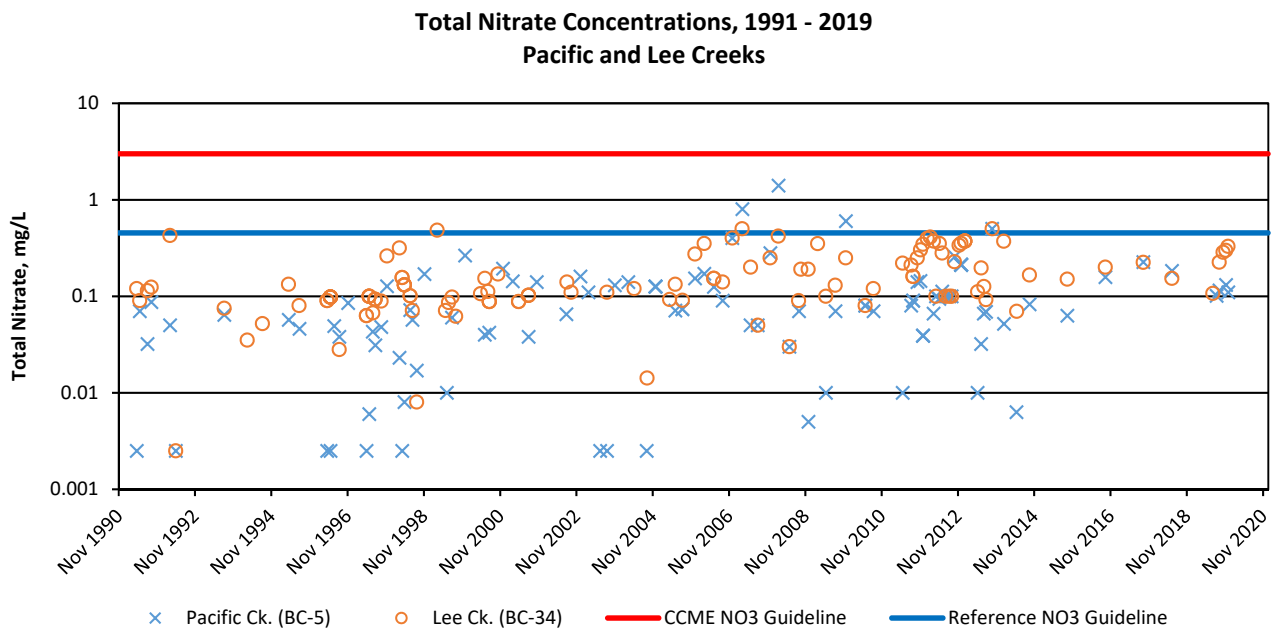


Figure 3-7 Nitrate Nitrogen Concentrations on Lee and Pacific Creeks (1991-2019). Note Log Scale

3.2.6 LEE AND PACIFIC CREEKS SUMMARY

Only one notable increase in metals content was noted in Pacific and Lee Creeks over the course of the mine life. Pacific Creek saw levels of arsenic above reference during mining, decommissioning and reclamation (<10% of samples), indicating that mining may have had an impact on arsenic concentrations. However, all arsenic samples analysed during this period of elevated values were below the CCME guideline.

Pacific Creek saw high levels of antimony (85% exceeding reference) during all periods, indicating that the reference condition may not appropriately characterize antimony at this station. In Lee Creek, antimony, zinc, copper and lead concentrations were observed to exceed the reference <10% of the time in all samples; however, this was found to be true during pre-mining conditions, and was not particular to mining or decommissioning and reclamation. Nitrate-N exhibited values above the reference condition, but not CCME, in the years following the 2004 forest fire at Brewery Creek, indicating that the fire had a measurable effect on this parameter, and could also be influencing the results of other parameters.

In general, concentrations are below CCME guidelines and in cases where they exceed CCME, such exceedance was observed even during pre- mining conditions, indicating that mining activities have not had an adverse impact on receiving water quality. Moreover, observed concentrations were not elevated during mining, decommissioning, or reclamation relative to reference concentrations, with the exception of arsenic on Pacific Creek; thus, the impact to the Pacific Creek and Lee Creek receiving environments is negligible relative to background (which is generally lower than CCME).

No notable changes in water quality were observed in Pacific and Lee Creeks during 2019. In general, results were below CCME guidelines with the exception of selenium in Pacific and Lee Creeks reference guideline), and dissolved zinc in December 2019. However, all selenium results were below the reference guideline, and the December dissolved zinc value on Lee Creek is highly likely to be a sampling error.

3.3 LAURA AND CAROLYN CREEKS

Seven stations were established on Laura and Carolyn Creek watersheds, as shown on Table 3-3. Six of these are located on Laura Creek, and one on Carolyn Creek. Monitoring of stations BC-01, BC-02 and BC-03 began in 1991, before the commencement of mining. As a result of impacts observed in the lower portion of Laura Creek during mining and at the start of decommissioning and reclamation, a program was established to assess water quality in the Lower Laura Creek system. This program used additional stations established in the lower portion of the creek, including BC-37, BC-53 and BC-39. Of those, only BC-39, a compliance station, has been analyzed in this assessment, as the results of the Lower Laura Creek system are presented in the Lower Laura Creek Impact Study (AEG, 2020).

Table 3-3 WQ Stations on Laura and Carolyn Creeks

Stations on Carolyn Creek and Laura Creek		Included in Assessment?
BC-32	Laura Creek below Exploration Camp	No
BC-03	Laura Creek above confluence w/ Carolyn Creek	Yes
BC-01	Laura Creek 50m u/s Ditch Road	Yes
BC-37	Laura Creek @ Ditch Road	No
BC-53	Laura Creek 50m d/s Ditch Road	No
BC-39	Laura Creek in the side channel of South Klondike River	Yes
BC-02	Carolyn Creek before confluence with Laura Creek	Yes

3.3.1 SELENIUM

Prior to mining, high MDLs for selenium complicated analysis of results obtained on Laura and Carolyn Creeks (as was the case for Lee and Pacific Creeks). However, higher results (>MDL) observed in Carolyn Creek after 2003 allowed analysis of selenium at least on that stream, as shown on Figure 3-8. On Laura Creek results were often at or near the detection limit.

Another factor related to the MDL that influenced the interpretation of water quality was that the SSWQO established during the previous 1996 water licencing process was only slightly less than four times the typical MDL. A Practical Quantitative Limit (PQL) of five times the MDL is considered prudent in assessing water quality results, although a PQL of three times the MDL is sometimes used.

In 2019, all samples from BC-01, BC-03, and BC-39 (compliance point) were below the SSWQO (0.0038 mg/L) but did exceed the CCME guideline (0.001 mg/L). Samples collected from BC-02, Carolyn Creek, exceeded the SSWQO in 2019.

Selenium is regarded as a parameter of interest within the Carolyn and Laura Creek watershed as a result of the observed high concentrations of selenium in Carolyn Creek (BC-02) relative to background conditions, and the earlier need to establish an SSWQO for this area.

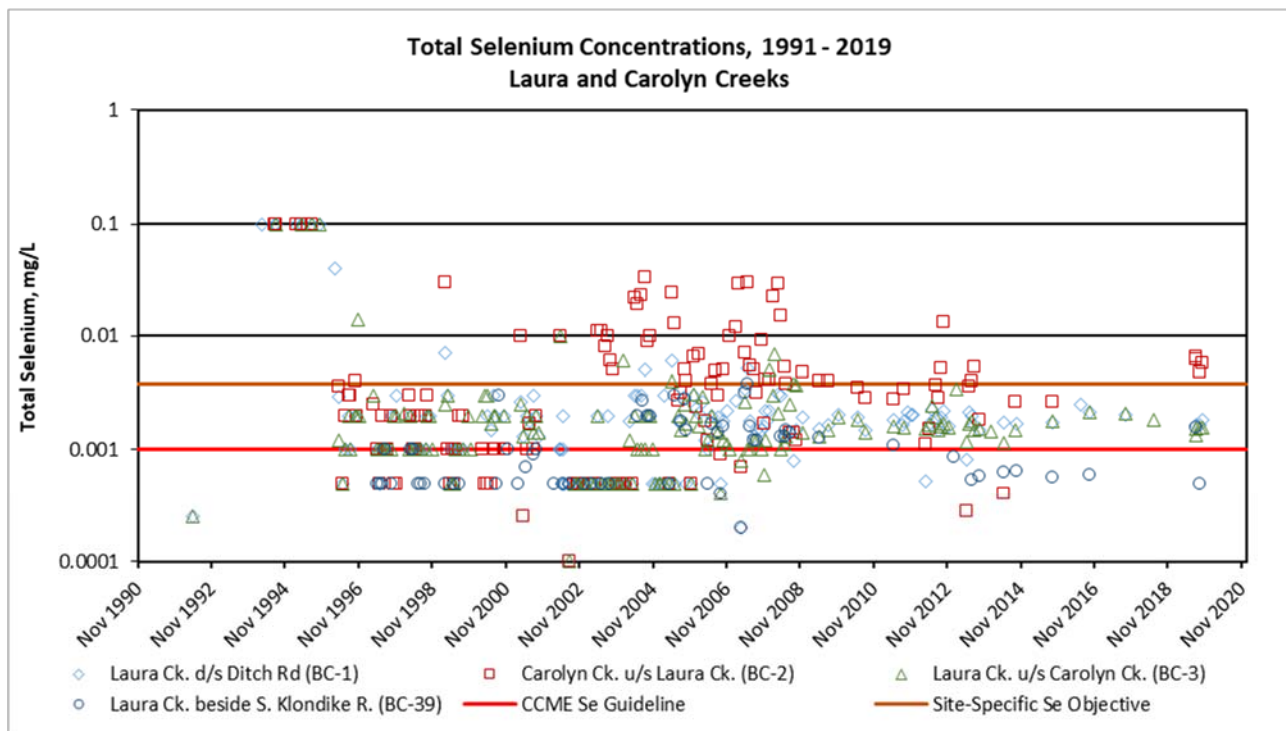


Figure 3-8 Selenium Concentrations on Laura and Carolyn Creeks (1992-2019). Note Log Scale.

3.3.2 ARSENIC

Arsenic results were not affected by high MDLs. The results show that arsenic concentrations increased in the Laura and Carolyn Creek watersheds primarily after the start of mining; however, the limited background dataset for these sites makes comparison with background benchmarks tenuous.

Arsenic concentrations did not show a specific trend for any sites, as shown on Figure 3-9.

At BC-39, compliance point, the data collected in 2019 were below the CCME arsenic guideline, and all samples collected from this location since the summer of 2007 have not exceed this guideline.

At BC-01, arsenic exceeded the CCME guideline 69% of results during production and decommissioning and reclamation, but only exceeded CCME 14% of the time prior to mining. At BC-02 and BC-03, arsenic was in excess of CCME 16% and 31% of the time, respectively, during production and decommissioning and reclamation, respectively. Laura Creek exceeded CCME more commonly during mining and reclamation than it did prior to mining. In 2019, two samples out of three collected at BC-01 (0.005 mg/L in August and 0.0056 mg/L in September) marginally exceeded the CCME guideline (0.005 mg/L). The rest of the samples collected from Laura Creek were below the CCME guideline.

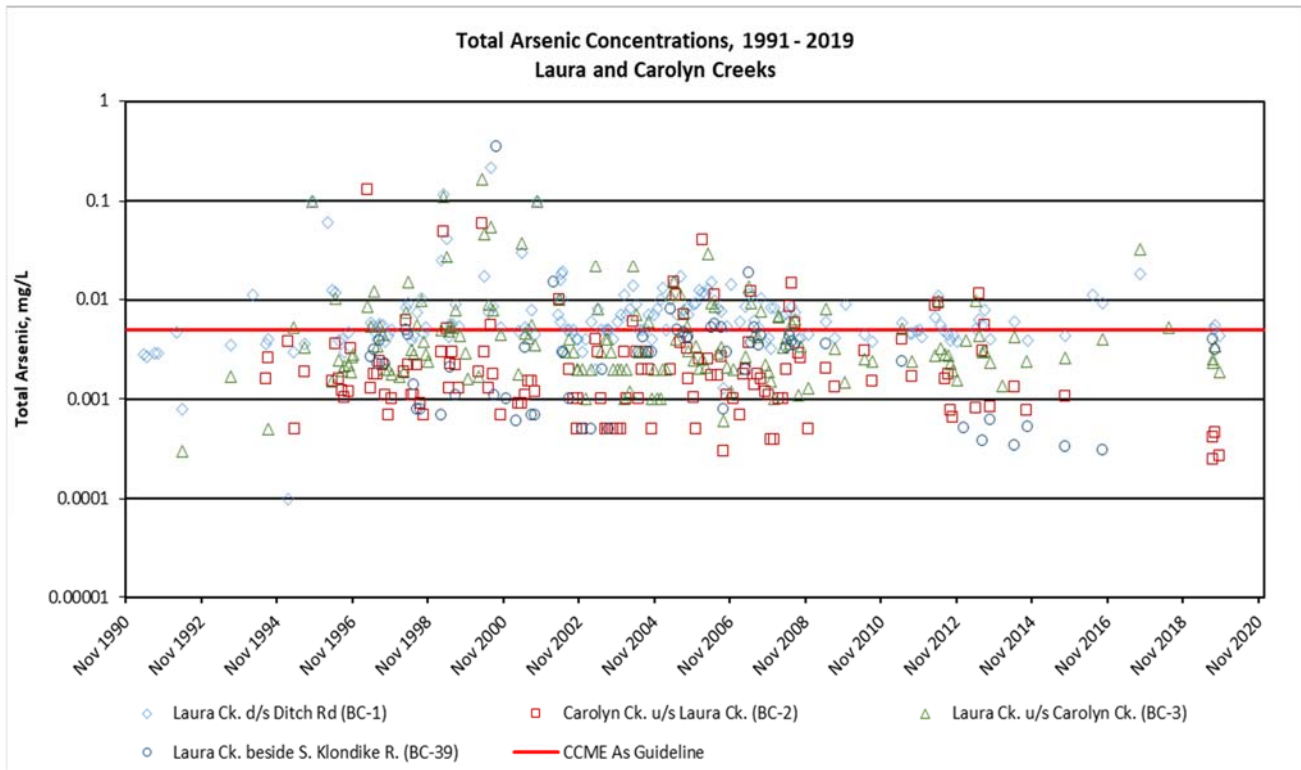


Figure 3-9 Arsenic Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.

3.3.3 ZINC

Like arsenic, the dissolved zinc dataset was not impacted by high MDLs. Relative to the arsenic time series for these sites, zinc exceeded CCME with significantly lower frequency. Although zinc values spiked somewhat during production, Figure 3-10 shows a bimodal distribution where zinc again peaks after 2005. The June 2004 fire in the Carolyn and Laura Creek watersheds may have increased the exposure of soils containing some zinc for erosion into river waters.

All of the samples collected in 2019 were below the CCME guideline for dissolved zinc for samples collected on Laura Creek or on Carolyn Creek. Zinc concentrations at BC-39 have remained below the CCME guideline since May 2007.

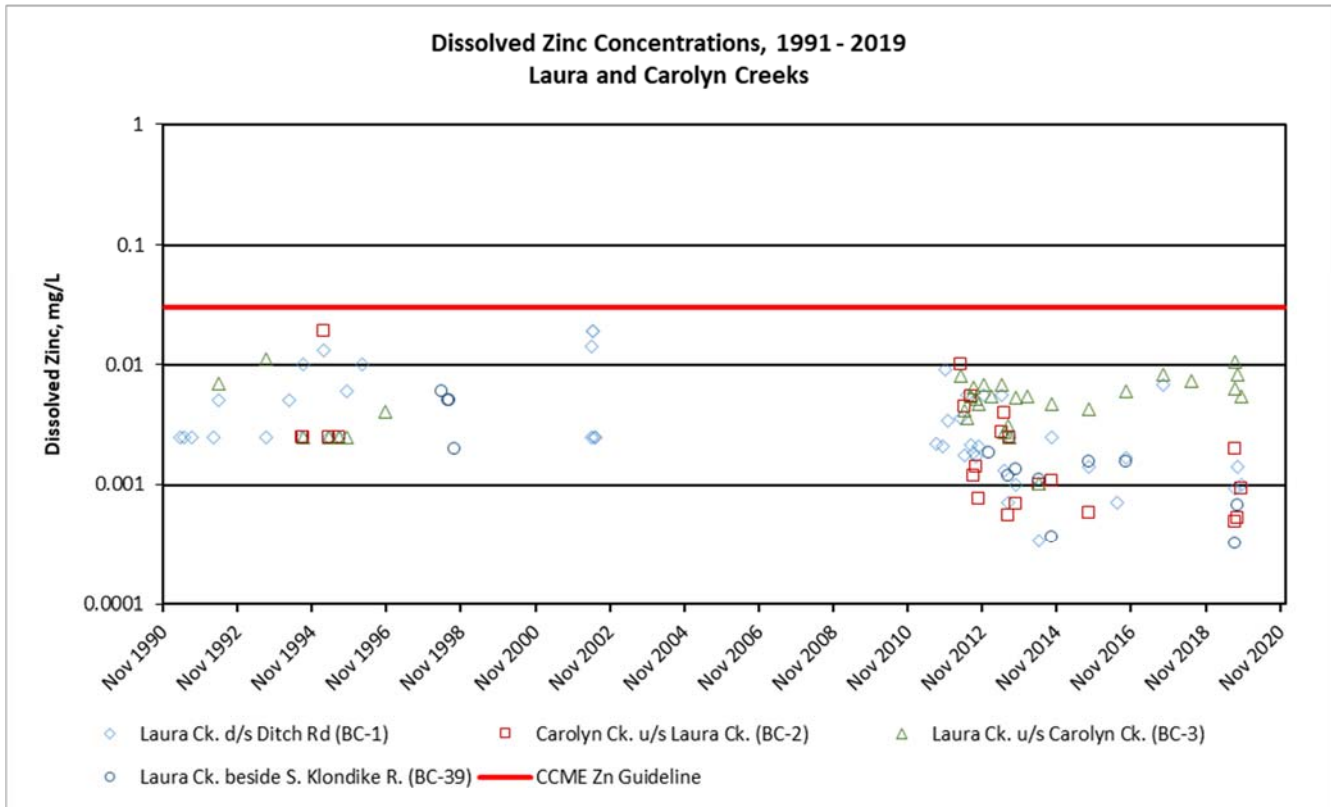


Figure 3-10 Zinc Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.

3.3.4 COPPER

Copper results exhibited variation relative to the CCME guideline, but did not indicate any specific trend, as shown on Figure 3-11.

All samples collected in 2019 were all below the CCME copper guideline. The CCME copper guideline shown on Figure 3-11 is 0.004 mg/L, which is based on a mean hardness of 255 mg/L of CaCO₃ within the catchment. This guideline value is shown on the figure for reference only as the actual guideline is variable for each sample based on measured hardness.

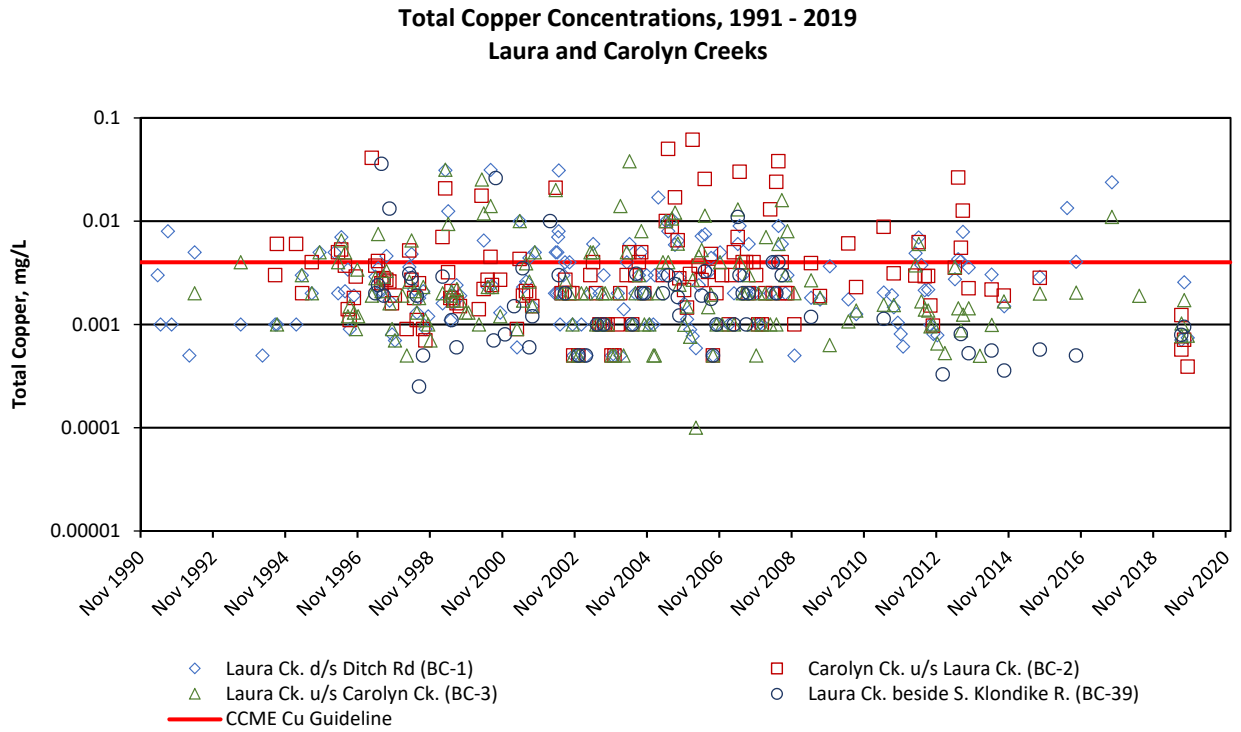


Figure 3-11 Copper Concentrations on Laura and Carolyn Creeks (1991 – 2019). Note Log Scale.

3.3.5 TOTAL SUSPENDED SOLIDS

Total suspended solids (TSS) often exhibits a seasonal pattern during high and low flow periods. On Figure 3-12 the majority of samples that exceeded the reference TSS value of 33 mg/L occurred during the summer months, especially during May and June, as a result of the spring freshet.

During 2019, BC-01 had one sampling event in September (56 mg/L) that exceeded the reference TSS value of 33mg/L. The TSS concentrations at rest of the Laura and Carolyn Creek sites, in 2019, were below the reference TSS value.

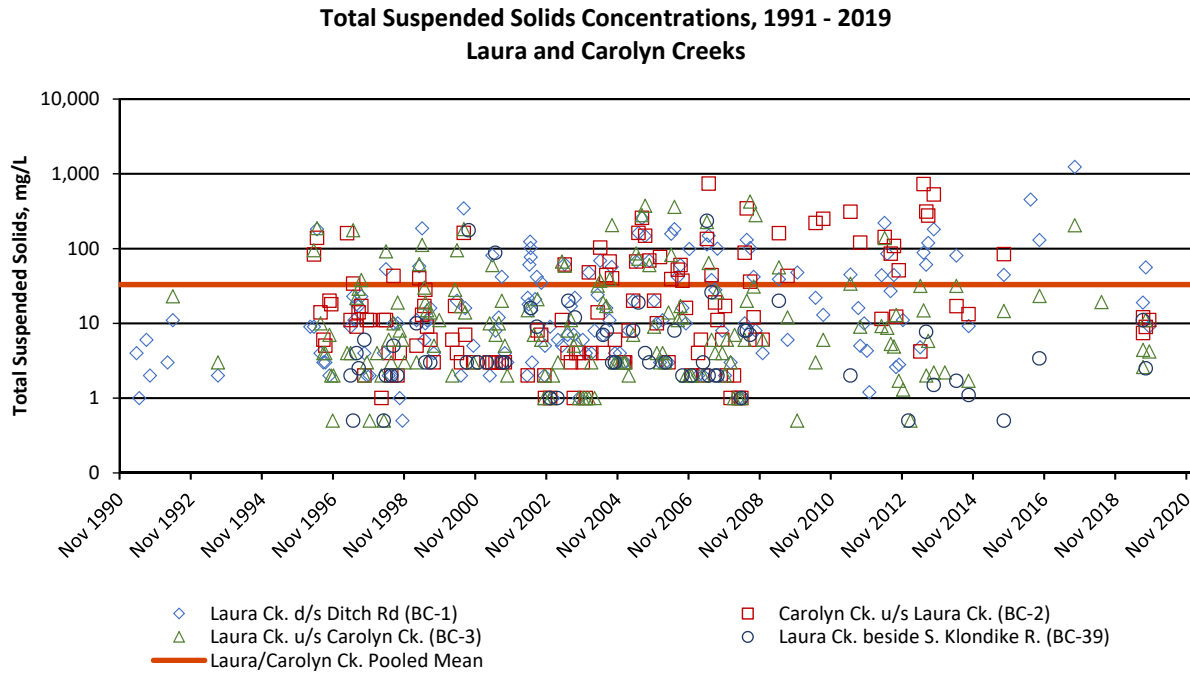


Figure 3-12 Total Suspended Solids Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

3.3.6 NITRATE

As mentioned previously, in 2004 a fire occurred at the Brewery Creek Mine within the Laura and Carolyn Creek watersheds which likely had an impact on the amount of nitrate observed here. Perhaps more significant, however, was the release of detoxified heap pad solution in 2002 and 2003 to the Laura Creek watershed. These releases and later free-draining of the heap would have resulted in an increase in nitrate to the Carolyn and Laura Creek systems. Figure 3-13 shows such an increase in Carolyn Creek, beginning in September 2002.

In 2002, the Laura and Carolyn Creek watersheds also saw the implementation of an evapotranspiration cover over the Blue Waste Rock Storage Area and Heap Leach Pad, as a part of the decommissioning and closure effort. These covers require the application of fertilizers to facilitate plant growth. Fertilizers can have an impact on surface waters as nutrients dissolve into runoff and are carried into the downstream environment and could be a source of nitrate here.

Nitrate concentrations increased sharply in Laura and Carolyn Creeks in the years following release of detoxified heap solution, construction of the waste rock and heap leach covers, and the forest fire. Figure 3-13 shows that these watersheds were still absorbing the effects of increased nitrogen inputs, as evidenced by sustained high nitrate concentrations up to 2014; however, nitrate concentrations have declined since 2015 to below the CCME guideline.

In 2019, BC-02, located on Carolyn creek, marginally exceeded the CCME guideline (3.0 mg/L) in all four samples collected, ranging from 3.14 to 4.25 mg/L. No other exceedances were observed in 2019 for the Laura Creek sites.

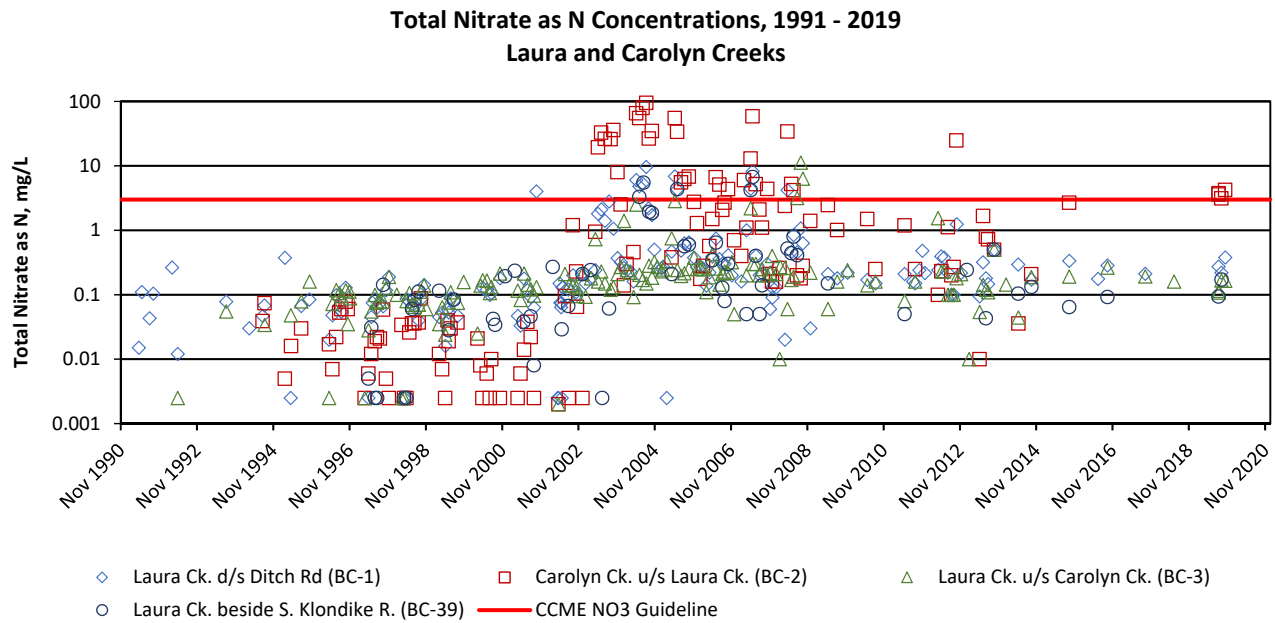


Figure 3-13 Nitrate as N Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

3.3.7 LAURA AND CAROLYN CREEKS SUMMARY

At BC-39, compliance point, there were no exceedances of the SSWQG (selenium) or CCME for the remaining parameters.

The mechanisms causing the elevated concentrations of the parameters discussed above differ in origin and spatial distribution. Arsenic CCME exceedances were observed at all sites and over most phases of mining and decommissioning and reclamation. Copper exceeded the CCME guideline in >10% of samples for all sites and during all periods but was higher than the CCME guideline prior to the start of mining in 1996. Zinc did not generally pose a significant risk, and elevated values may be associated with environmental conditions caused by the 2004 fire. Nitrate concentrations were also elevated during decommissioning and reclamation as a result of the combined influences of released detoxified heap solution, construction of the waste rock and heap leach covers, and the 2004 forest fire.

Additional parameters such as antimony and lead are presented graphically in Appendix B for Laura and Carolyn Creeks and were all below guidelines in 2019.

3.4 SOUTH KLONDIKE RIVER

Datasets (BC-6 and BC-38) for the South Klondike River were affected by data at or near the MDL, particularly for the early years of monitoring. Constituent concentrations in samples collected from the South Klondike River generally tended to be lower than elsewhere on the property for all parameters. Concentrations were typically below both CCME and reference conditions thresholds for all constituents of interest, with only occasional, sporadic exceedances (Appendix B).

The 2019 data collected from BC-6 and BC-38 were aligned with the existing trends, with all parameters below guidelines with the exception of selenium which is below the background reference guideline.

No trends indicating increased concentration of parameters of interest have been observed in the South Klondike River as a result of mining activities at the Brewery Creek Mine during 1996 – 2000. Moreover, no appreciable effects have been observed during the significant period of decommissioning and reclamation activities at the mine. Zinc, copper, lead, selenium, arsenic, TSS, and antimony water quality results are presented graphically in Appendix B.

3.5 GROUNDWATER QUALITY

Like surface water monitoring, groundwater monitoring at Brewery Creek has transitioned to the post-closure phase, which involves annual monitoring of groundwater piezometers at all wells in the license except BC-65 and 66 which are still bi-annual. The amount of environmental monitoring at BC-19, BC-21, BC-22, BC-65 and BC-66 has reduced in frequency since closure of the heap has been accomplished and the drain down solutions treated. Similarly, since closure of the Blue Waste Rock Storage area (WRSA) has been achieved, monitoring at stations BC-67, BC-68 and BC-69 has been reduced. Piezometers located at stations BC-20, BC-23, BC-24, BC-25 and BC-26 were removed from license QZ96-007 in Amendment #8 and are therefore do not require monitoring.

Data are presented in tables in Appendix A, and graphically in Appendix C. Note that where results were below the MDL, half of the MDL was used in the graphs.

3.5.1 HEAP PAD GROUNDWATER MONITORING

Monitoring up to 2019 showed no sign of increasing or decreasing trends for selenium, arsenic, total and WAD cyanide, or ammonia. Although WAD and total cyanide concentrations appear to be decreasing, this is an artefact of lower MDLs in the recent years.

Antimony levels at BC-19 and BC-21 appear to be fairly consistent from 2012 to 2019. BC-19 was slightly elevated during the August 2019 monitoring event compared to the since 2012.

At BC-21, arsenic levels appear to be slightly higher in 2012 to 2017 than the average for the decommissioning and reclamation period but were not as high as during production (average of 0.014 mg/L from 2012 – 2017 compared to an average of 0.22 mg/L from 1996 – 2000). In 2018 and 2019, the arsenic values (0.0019 and 0.0025 mg/L, respectively) analysed were lower than the 2012-2017 period, and more in line with the decommissioning phase.

3.5.2 LAND APPLICATION AREA GROUNDWATER MONITORING

Monitoring at station BC-66 showed no sign of increasing or decreasing trends for selenium, arsenic, antimony, total cyanide, or ammonia.

All results were in compliance with respect to Clause 43 of Water Licence QZ96-007. No data was obtained from BC-65, which has been dry during all sampling events from 2016 to 2018. A new well was drilled for BC-65, allowing data to be collected in November 2019.

3.5.3 BLUE WRSA GROUNDWATER MONITORING

Monitoring at stations BC-67 and BC-69 showed no sign of increasing or decreasing trends for arsenic, antimony, total and WAD cyanide, or ammonia. There was one occurrence of a single decrease in BC-67, where antimony decreased from 0.0938 mg/L (2017) to 0.0047 mg/L (2019), but this is within the range of historical data of the site (0.0034 mg/L to 0.144 mg/L).

The exception was dissolved selenium at BC-69 which has shown a decreasing trend between 2008 and 2014 but has since shown more consistent selenium concentrations (0.0123 mg/L to 0.0181 mg/L).

Monitoring could not be carried out at Blue WRSA stations BC-68 and BC-70 from 2016 to 2018. In 2019 a sample was collected from BC-70, in August, but no sample was obtained from BC-68. BC-70 was sampled in August 2019. The piping that leads into the lysimeter of BC-70 is broken. It is suspected that the water in the lysimeter now is most likely rainwater. The 2019 results from BC-70 were generally below or in the lower range of the historical data. Results are presented graphically in Appendix C. Attempts to sample BC-68 and BC-70 will continue in future years.

3.6 IN-PIT WATER QUALITY

Mined out pits were used effectively as sediment control basins during operations and mine decommissioning. Snow melt and precipitation run-off were directed to the closest inactive pit. Pit samples were taken from surface standing water within each pit in 2019.

- BC-10: Kokanee Pit and Dump;
- BC-12: Blue Pit;
- BC-15: Moosehead Pit;
- BC-16: Pacific Gulch (typically dry);
- BC-17: Golden Pit and Dump; and
- BC-51W: Pacific Pit (west side).

The following points highlight pit water characteristics:

- Water that contained in all pits either exfiltrates or evaporates;
- Neither the Pacific nor Blue Pits discharge to surface waters; water infiltrates through the pit bottoms;
- Although the Blue Pit (BC-12) exhibited relatively low pH values in 2012 (pH 4.85 in June), pH values obtained during the 2019 sampling were neutral. These pH values are considerably higher than historic (mining) results in the Blue Pit and suggest pit chemistry is stable and not trending towards acidic rock drainage concerns. pH levels (3.05 in July 2019) in Pacific Pit (BC-51W) have been consistent since 2008;
- Previous years' sampling in the Moosehead Pit (BC-15) showed higher levels of selenium. This trend reversed beginning in 2009, and selenium levels in Moosehead from 2009-2018 continued to be below 0.05 mg/L, with a result of 0.038 mg/L in 2019.

Overall, the results of pit water sampling indicate no upward trends from previous years.

3.7 HEAP EFFLUENT WATER QUALITY

In 2019, no water was discharged into the receiving environment via direct discharge or land application from the overflow pond, heap discharge pond, or the Biological Treatment Cell. The associated sampling sites (BC-28, 28a, and 28b) were sampled in July, September, October and November 2019, but were not compared to the effluent quality standards provided in Water License QZ96-007 Clauses 42 and 44 as there was no discharge.

4. SUMMARY

- Selenium concentrations in Laura and Carolyn Creeks increased several years after land application of the heap effluent. The land application system ceased operations in 2000, while concentrations of selenium in the environment began rising in Carolyn Creek in 2003, and in Laura Creek in 2004 but have generally been lower since 2009.
- The 2004 fire event increased the nitrate concentrations in Laura and Carolyn Creeks, as well as in Lee and Pacific Creeks, and the South Klondike River.
- Concentrations of constituents of interest in the South Klondike River were lower than CCME guidelines in 99% of samples collected over all three periods (pre-mining, production and decommissioning). No impacts have been observed in the river as a result of mining activities at the Brewery Creek Mine during 1996 – 2000. Moreover, no effects have been observed during the period of decommissioning and reclamation activities at the mine from 2000 – 2019.

5. REFERENCES

Access Consulting Group, 2010. *Brewery Creek from Assessment and Permitting through Production to Post Closure: A Post Closure Analysis of a Northern Heap Leach Mine*. MPERG Report 2009-4.

Alexco Environmental Group Inc. (AEG), 2020. Lower Laura Creek Impact Study, in *2019 Brewery Creek Annual Report*.

Canadian Council of the Ministers of the Environment, 2012. *Canadian Water Quality Guidelines for the Protection of Aquatic Life*.

Ontario Ministry of Environment and Energy, 1994. *Policies, Guidelines Provincial Water Quality Objective of the Ministry of Environment and Energy (Ontario)*.

APPENDIX A. 2019 SW and GW Tabulated Data

APPENDIX B. Surface Water Data Plots

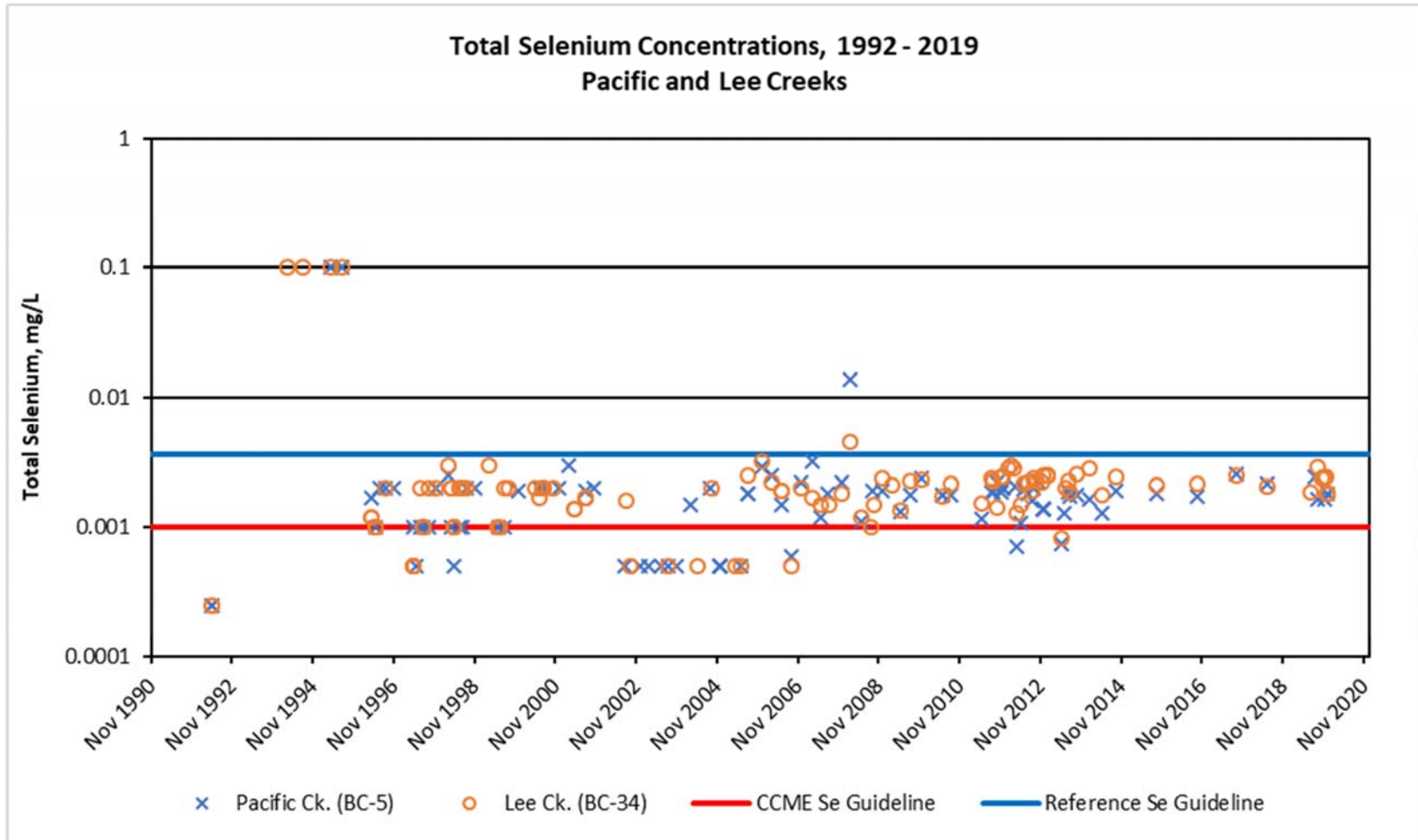


Figure B- 1: Selenium Concentrations on Pacific and Lee Creeks (1992-2019). Note Log Scale.

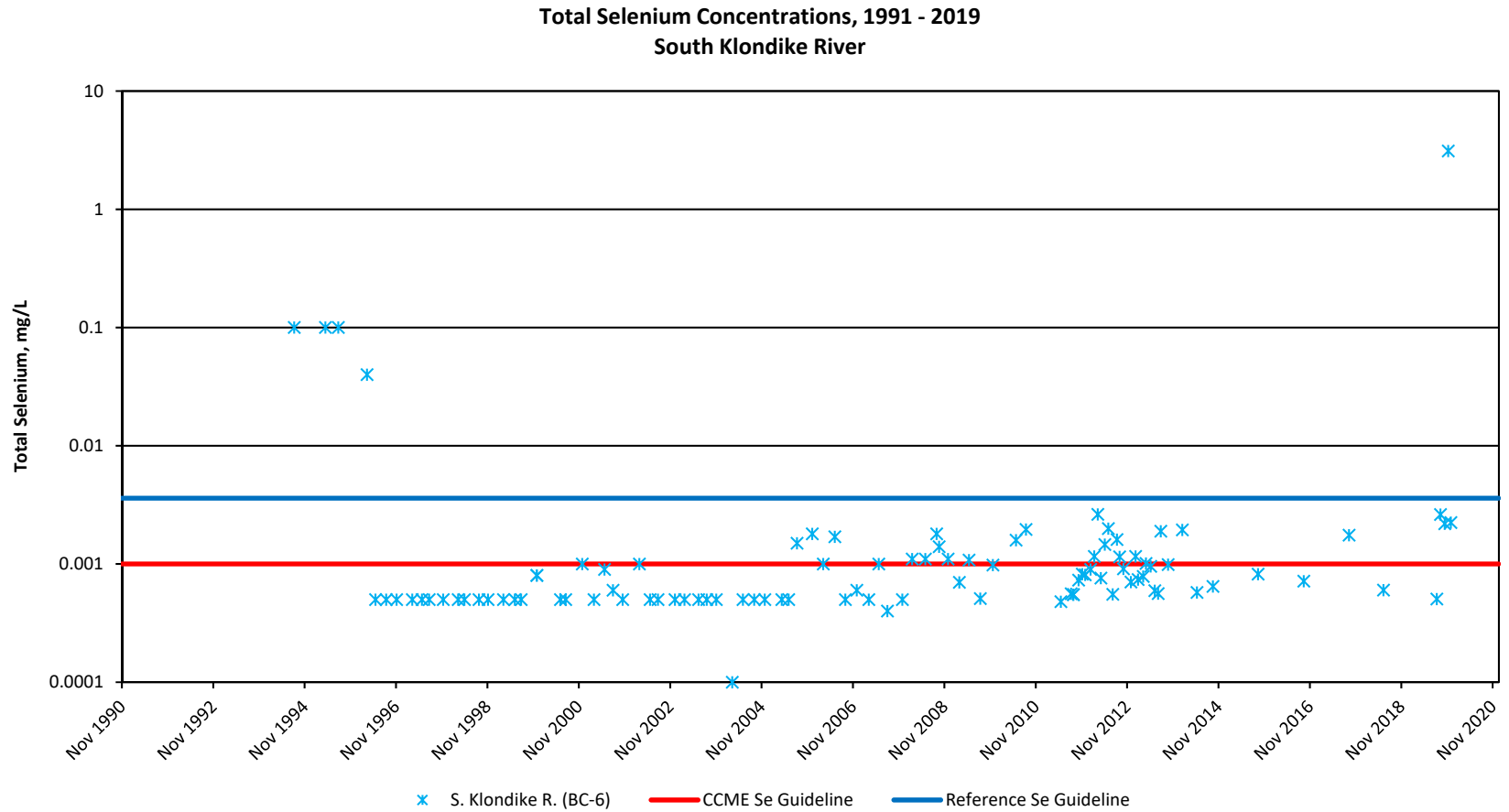


Figure B- 2: Selenium Concentrations on South Klondike River (1991-2019). Note Log Scale.

**Total Selenium Concentrations, 1991 - 2019
 Laura and Carolyn Creeks**

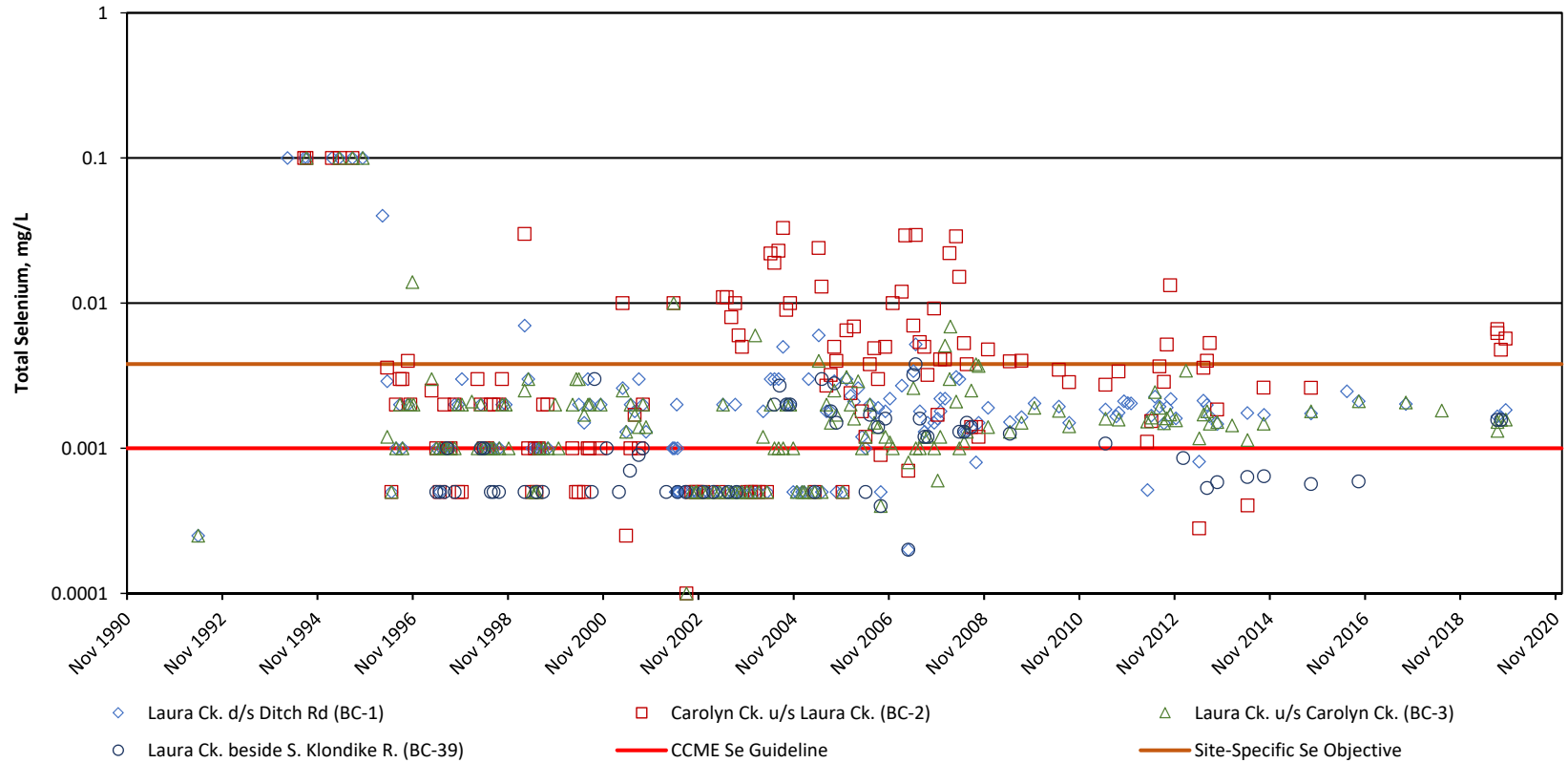


Figure B- 3: Selenium Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

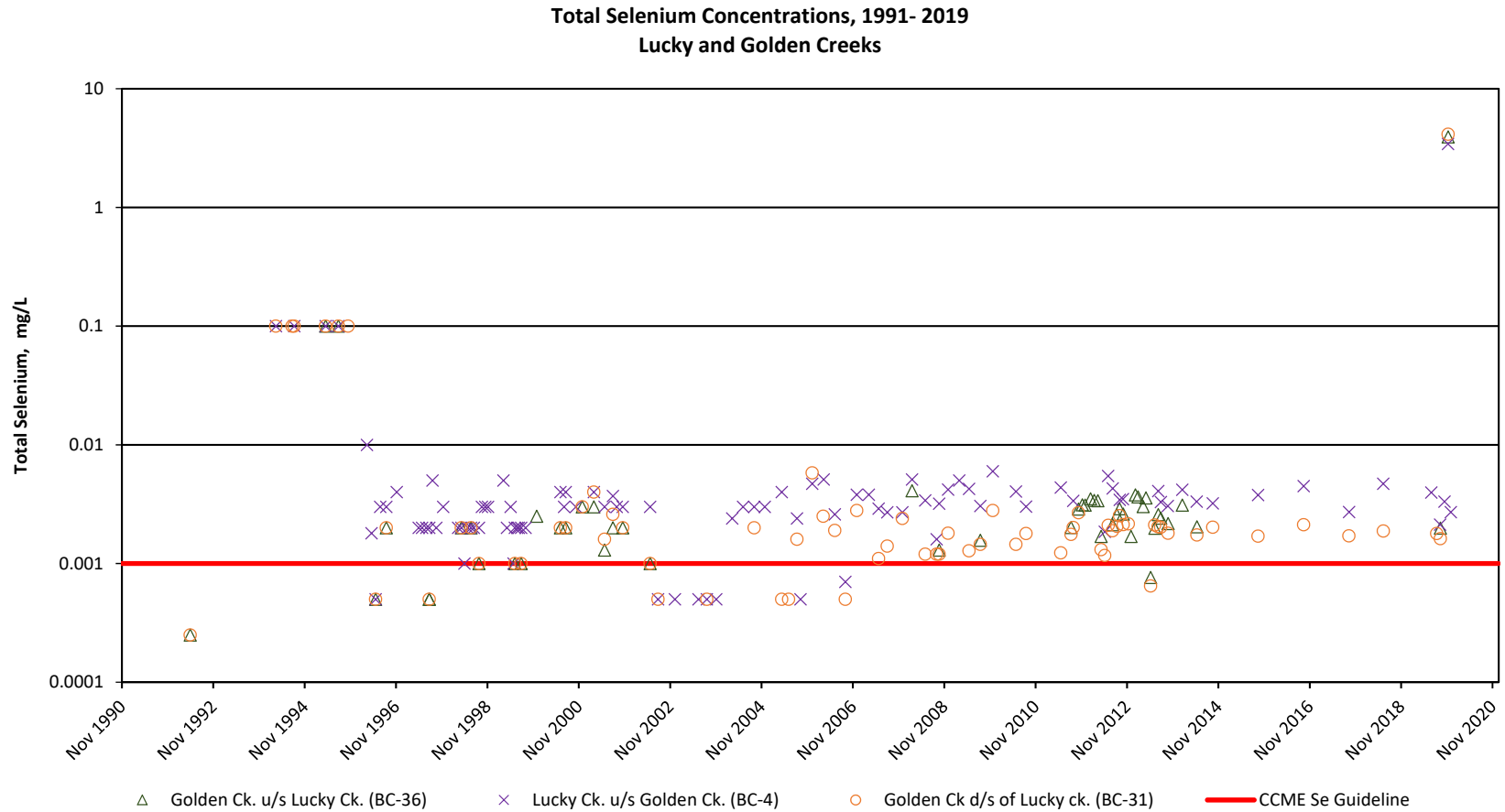


Figure B- 4: Selenium Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

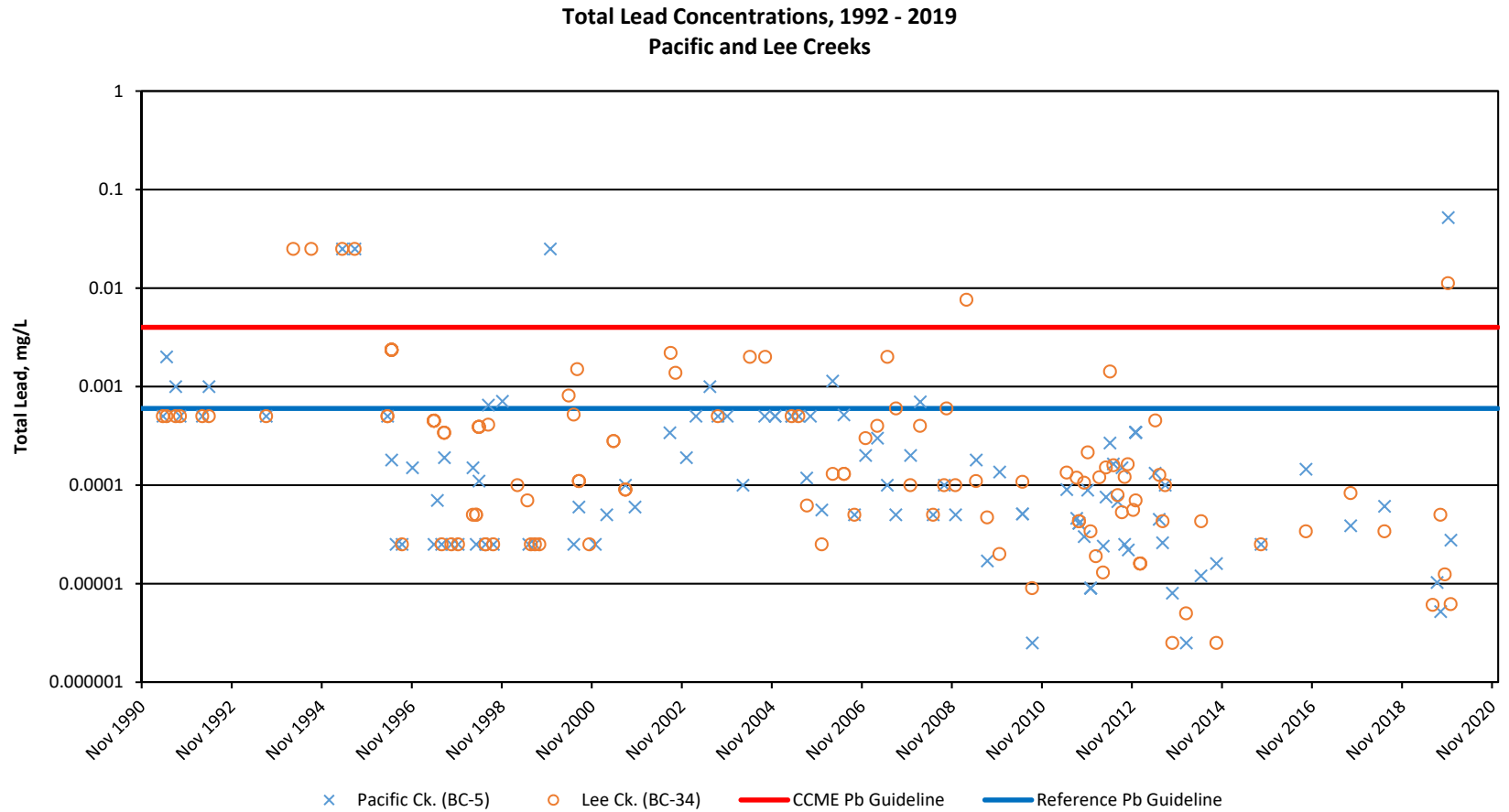


Figure B- 5: Lead Concentrations on Pacific and Lee Creeks (1992-2019). Note Log Scale.

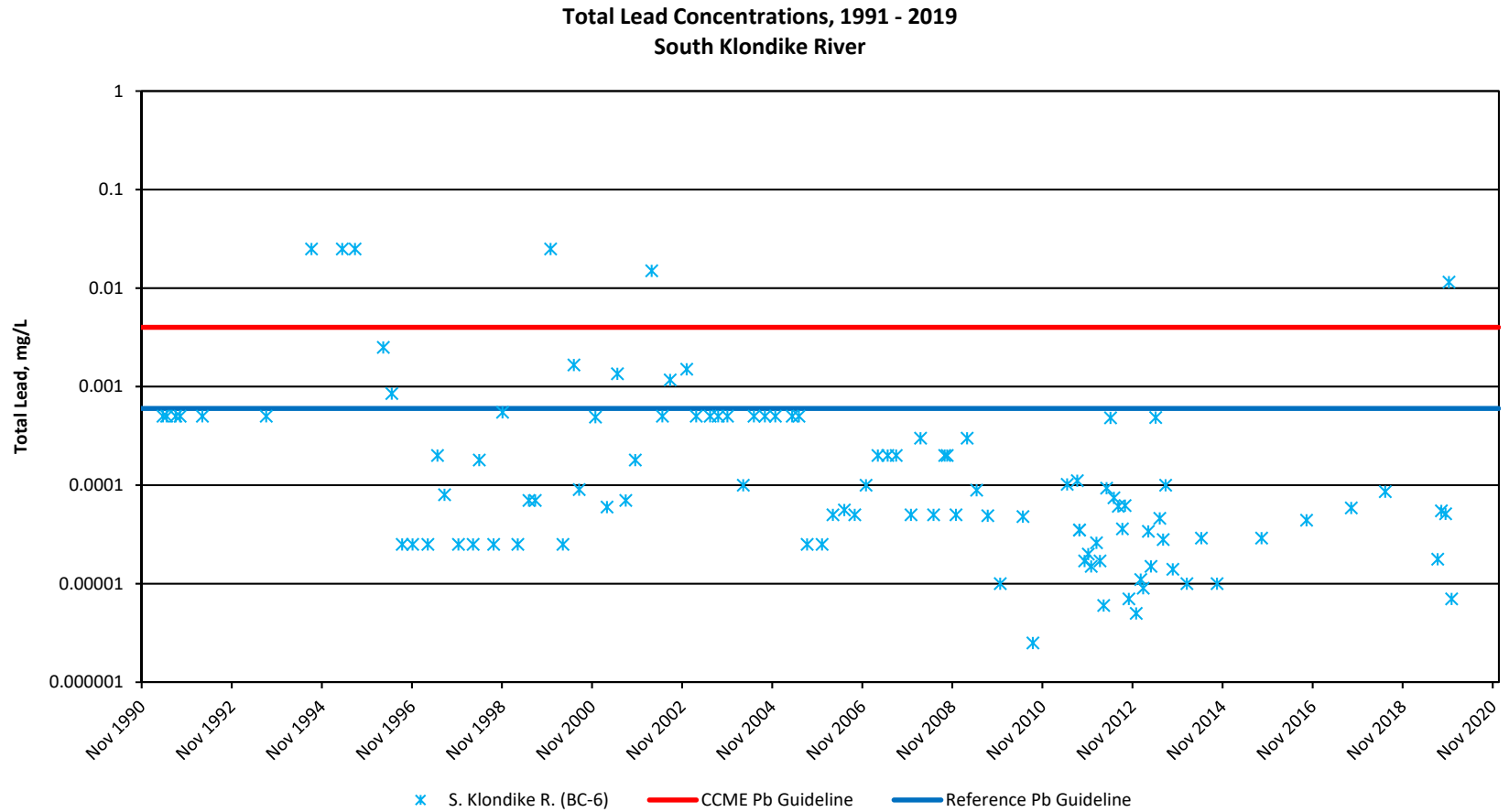


Figure B- 6: Lead Concentrations on South Klondike River (1991-2019). Note Log Scale.

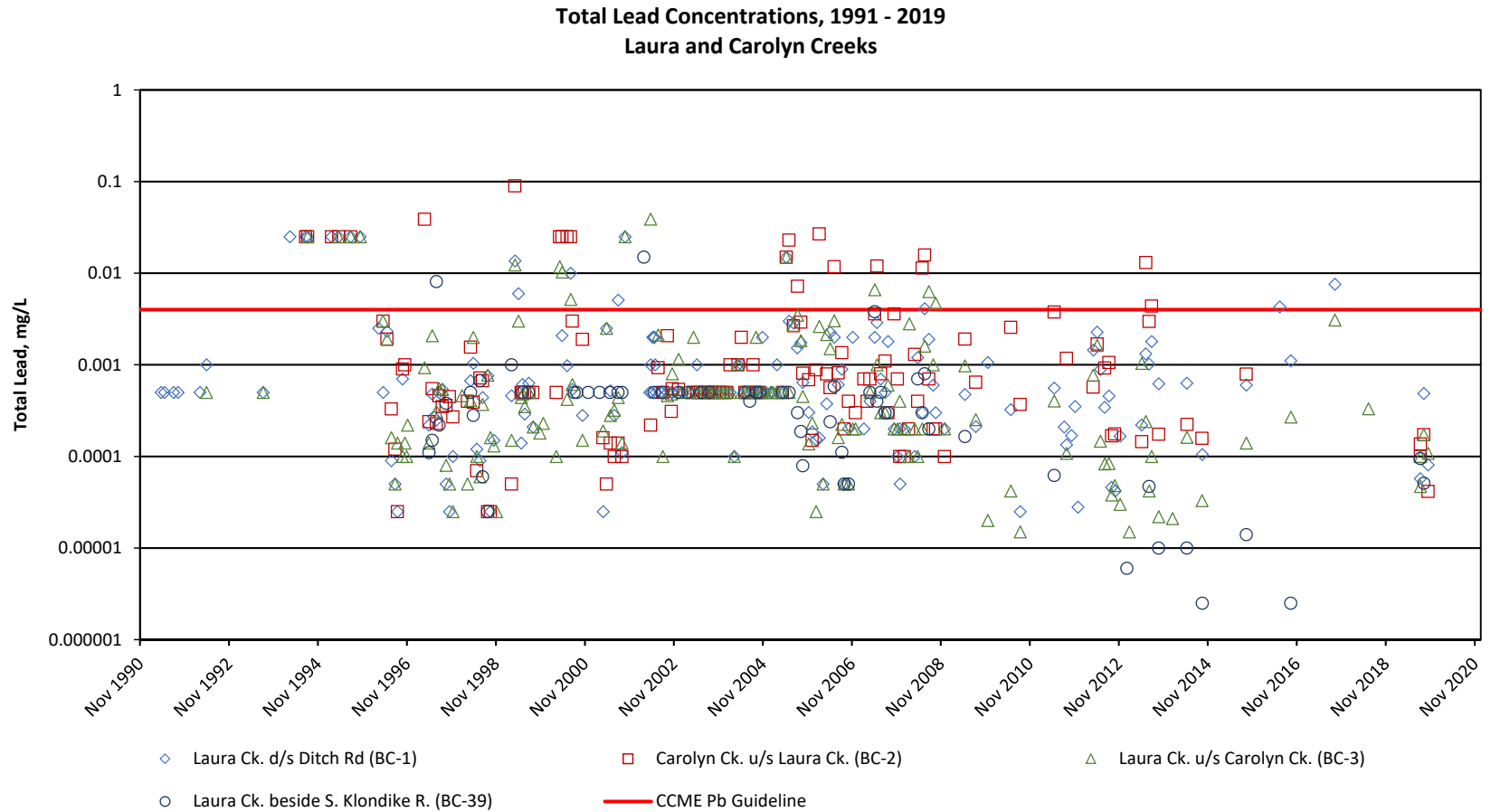


Figure B- 7: Lead Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

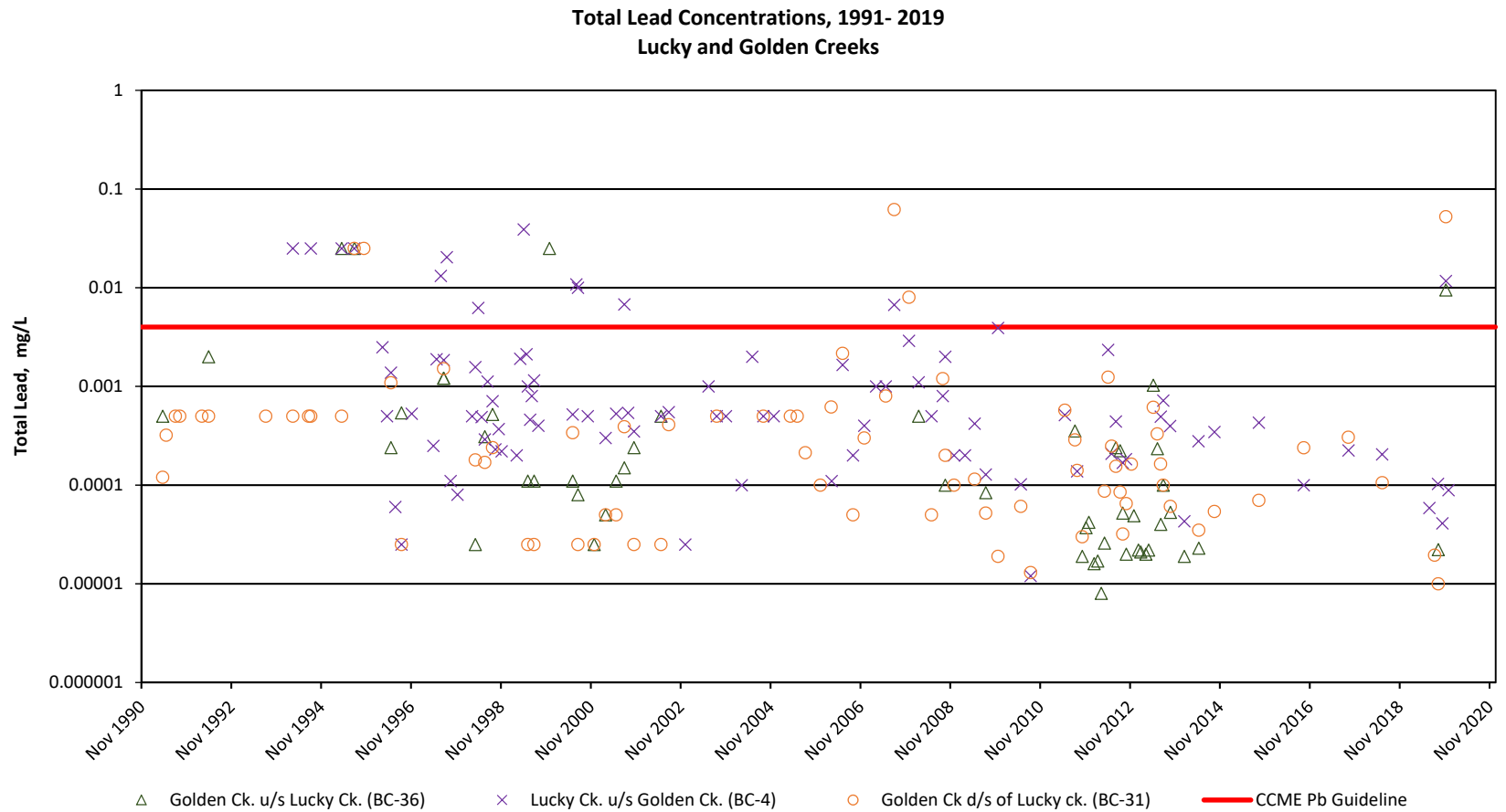


Figure B- 8: Lead Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

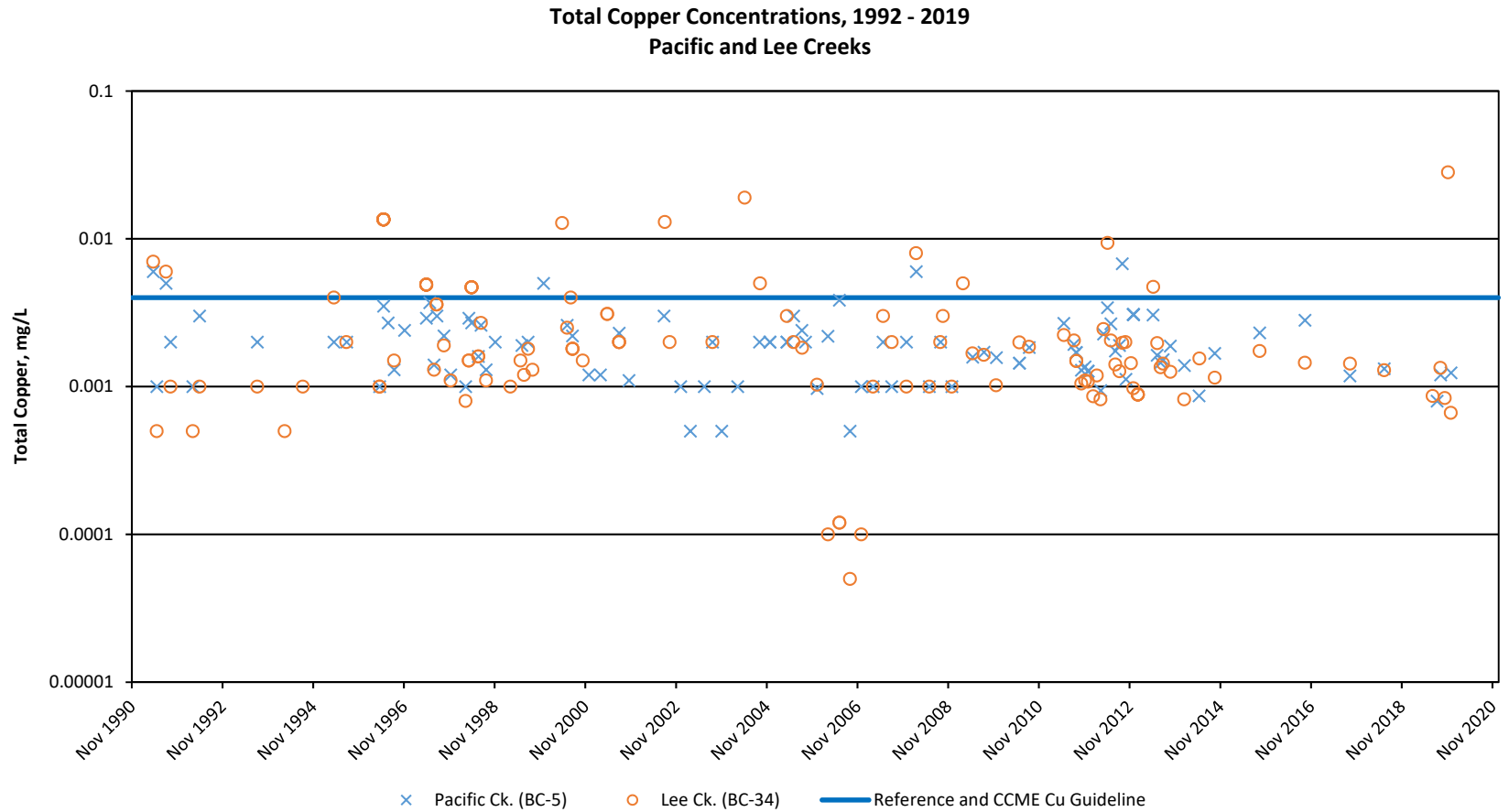


Figure B- 9:Copper Concentrations on Pacific and Lee Creeks (1992-2019). Note Log Scale.

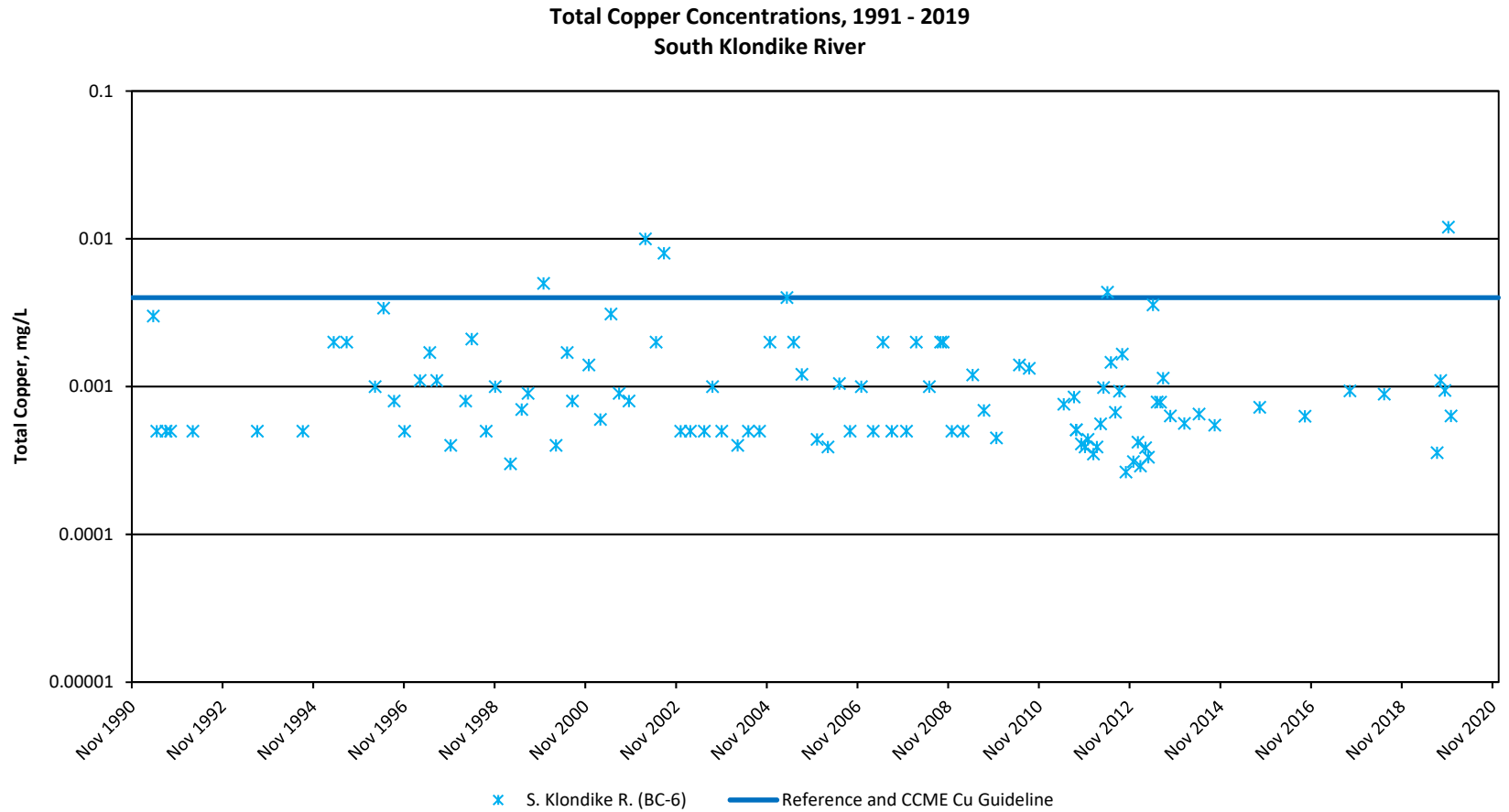


Figure B- 10: Copper Concentrations on South Klondike River (1991-2019). Note Log Scale.

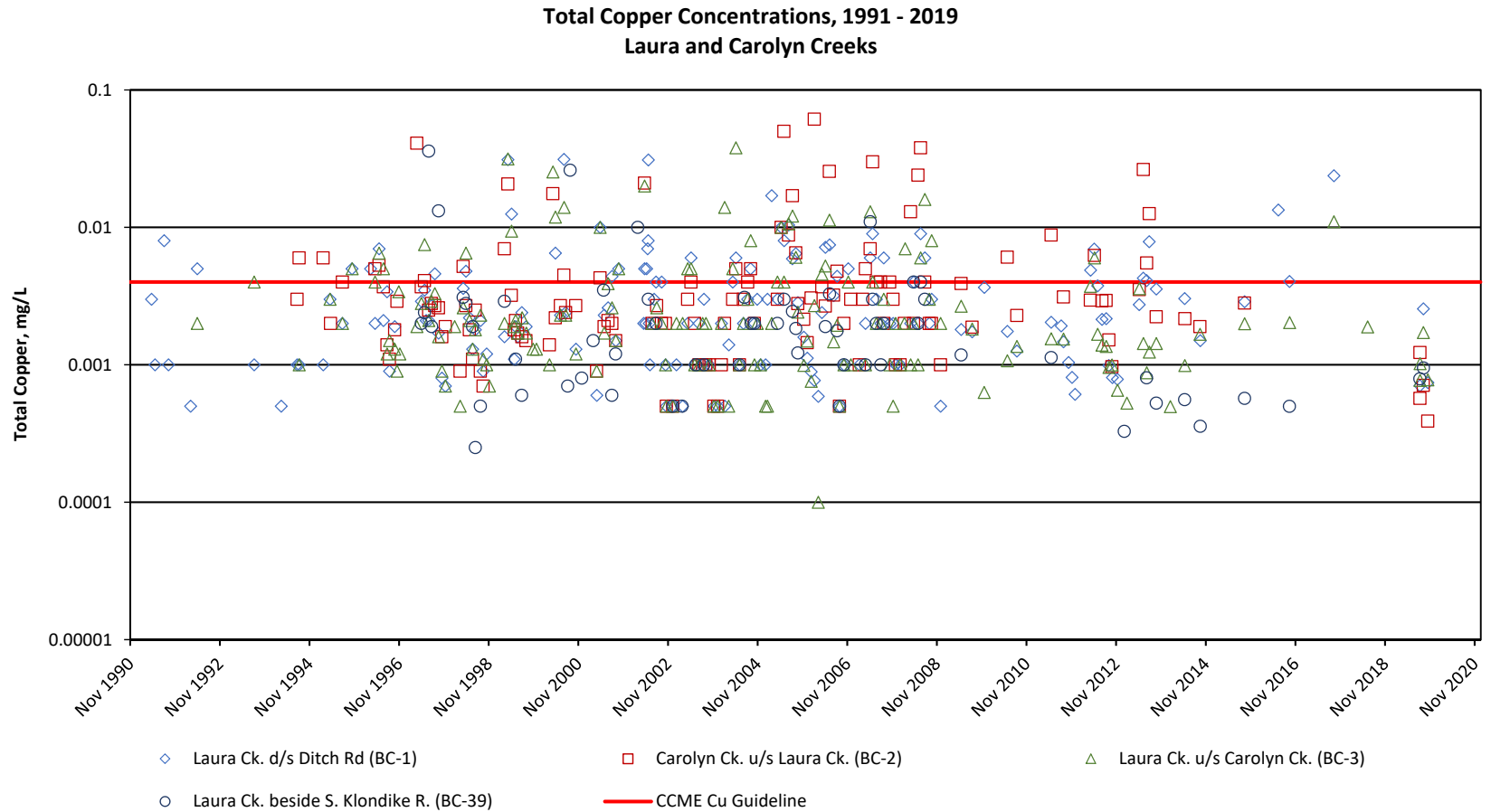


Figure B- 11: Copper Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

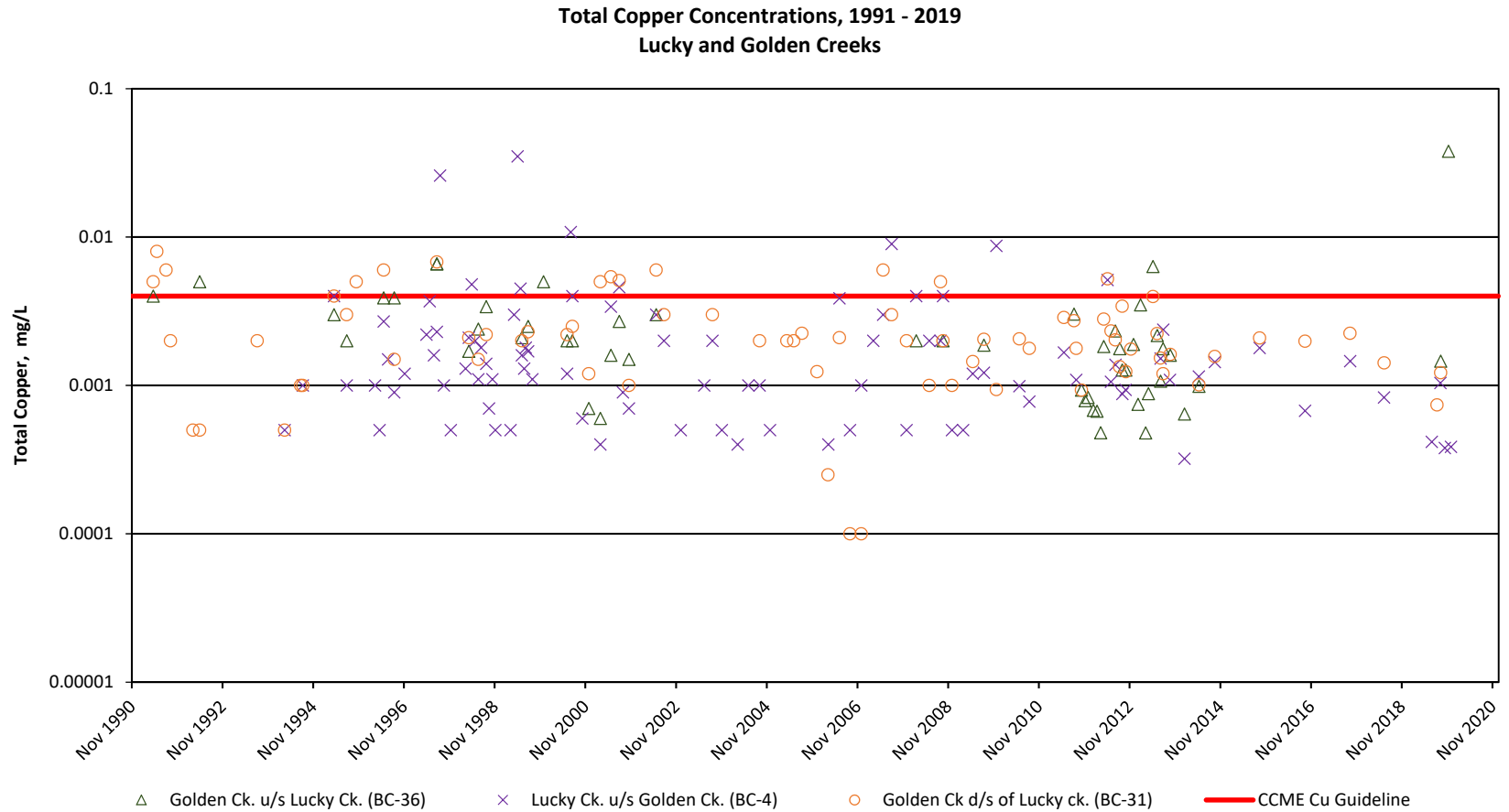


Figure B- 12: Copper Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

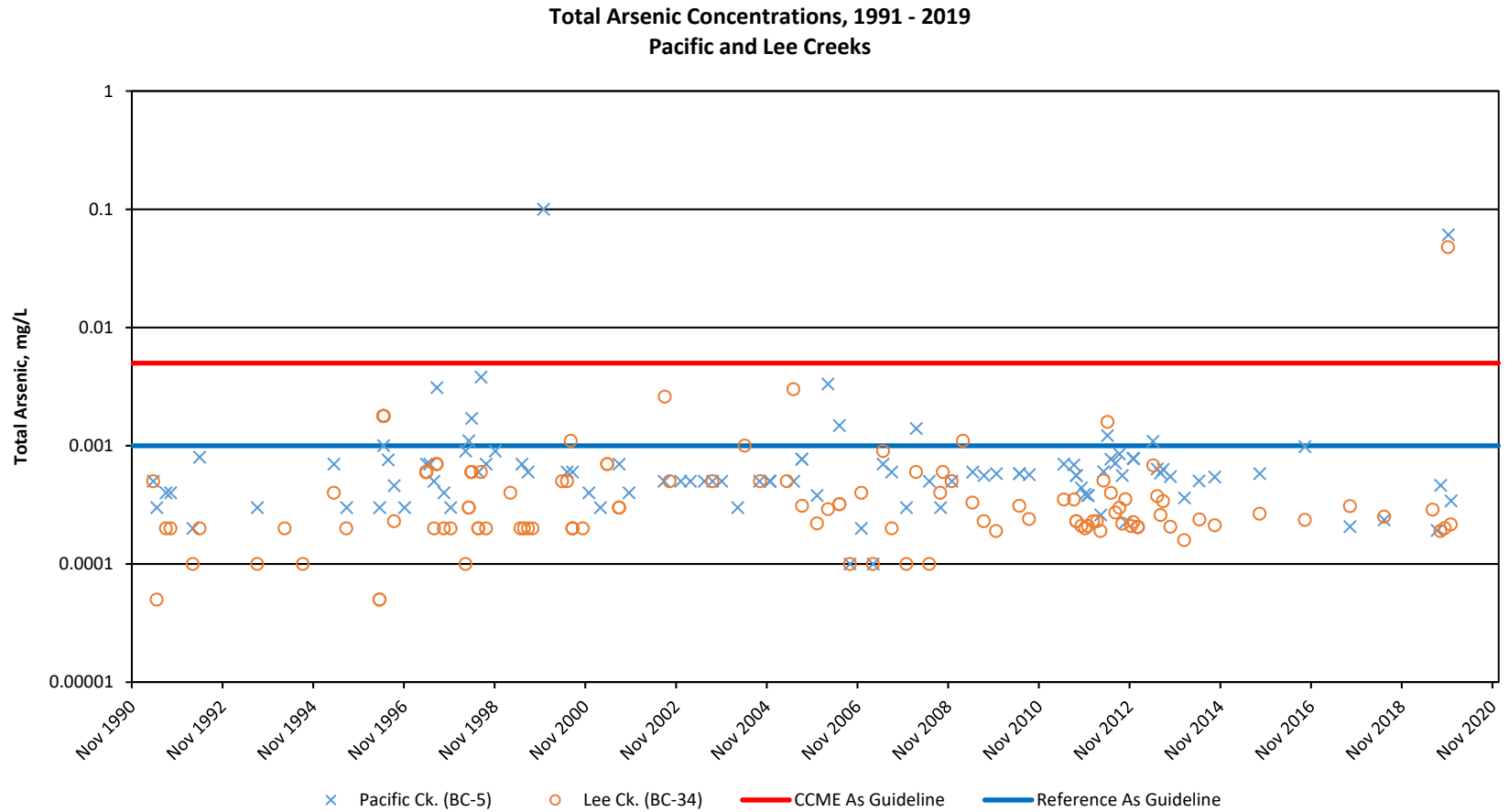


Figure B- 13: Arsenic Concentrations on Pacific and Lee Creeks (1991-2019). Note Log Scale.

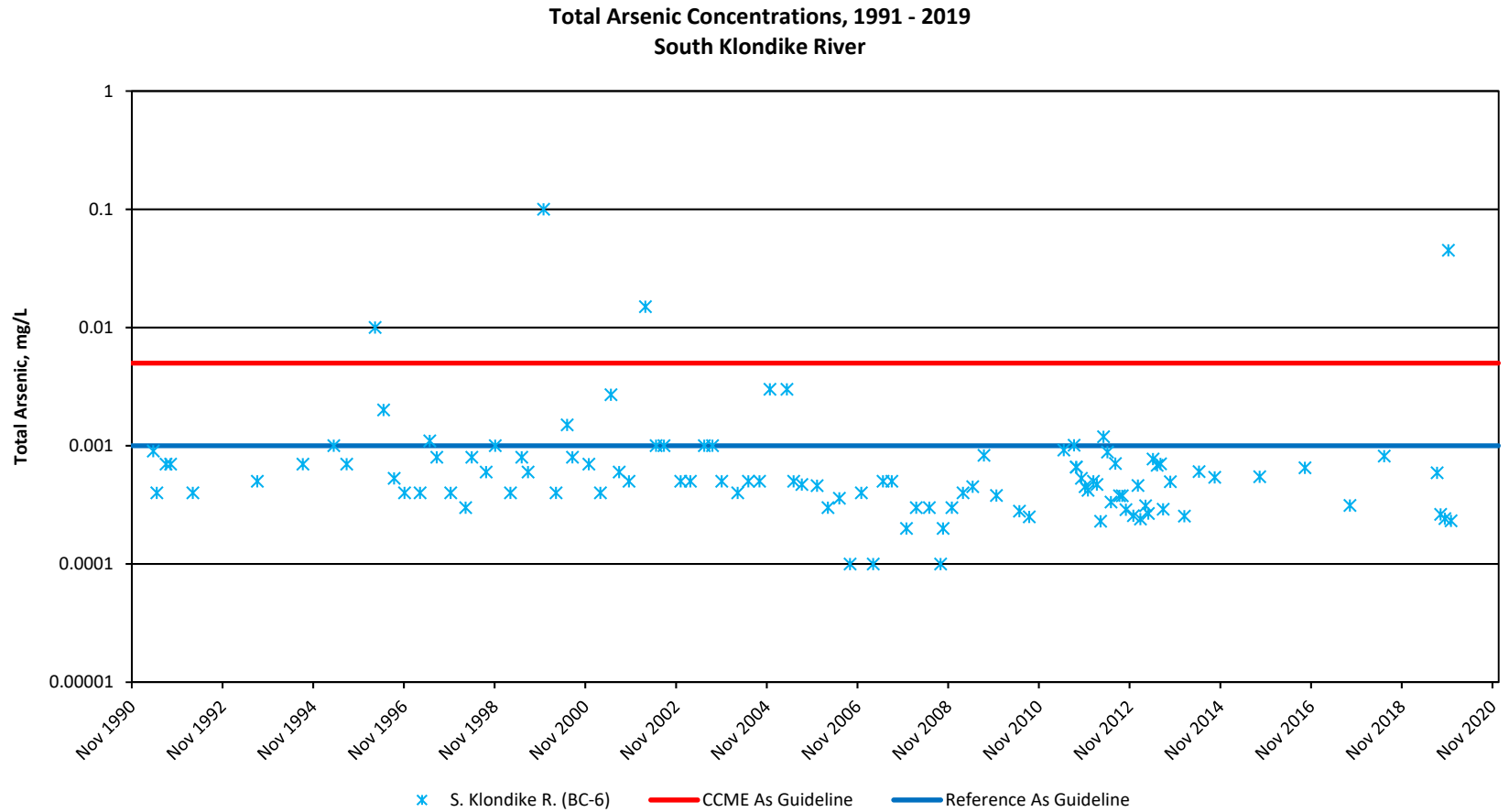


Figure B- 14: Arsenic Concentrations on South Klondike River (1991-2019). Note Log Scale.

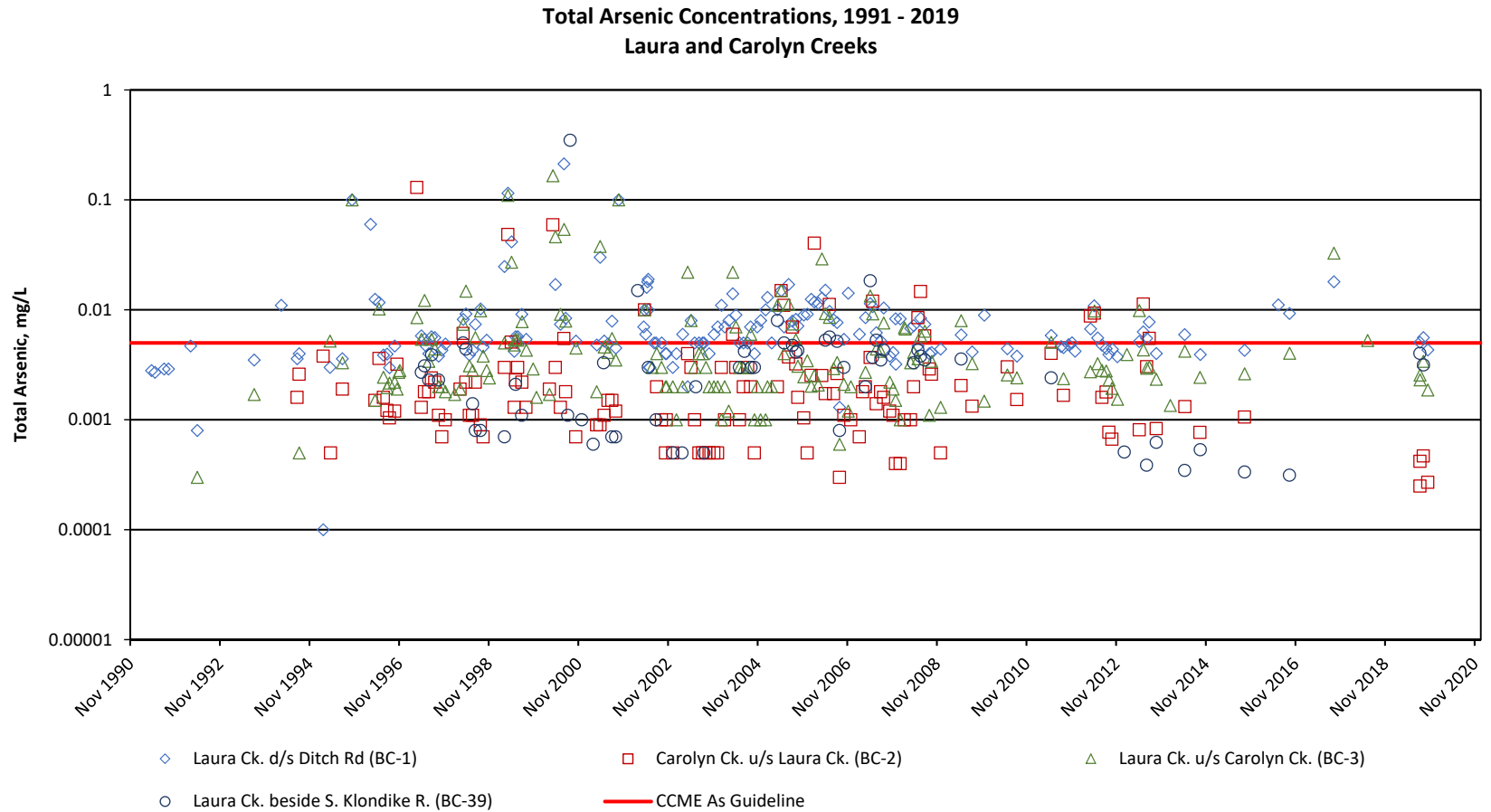


Figure B- 15: Arsenic Concentrations on Laure and Carolyn (1991-2019). Note Log Scale.

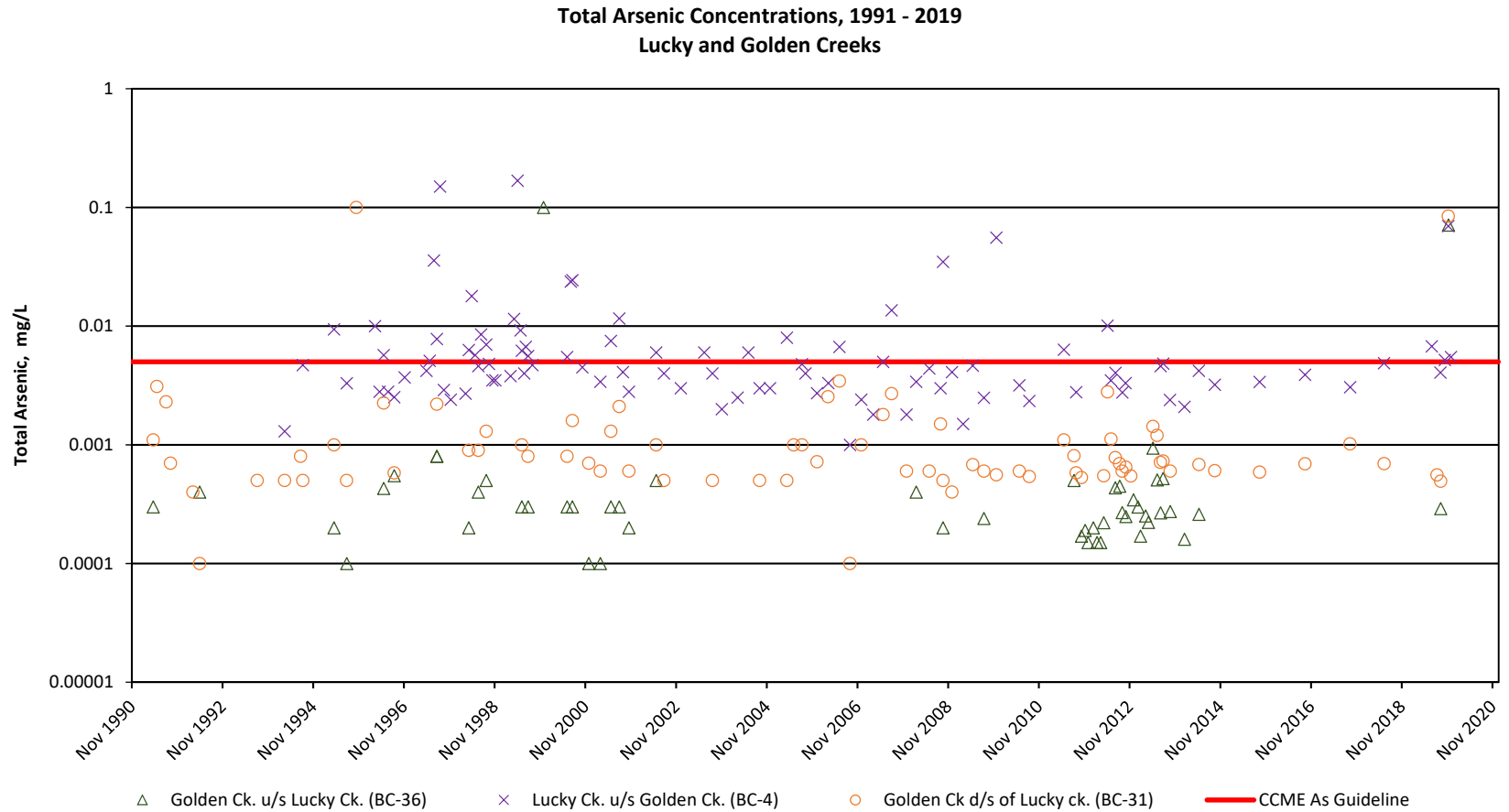


Figure B- 16: Arsenic Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

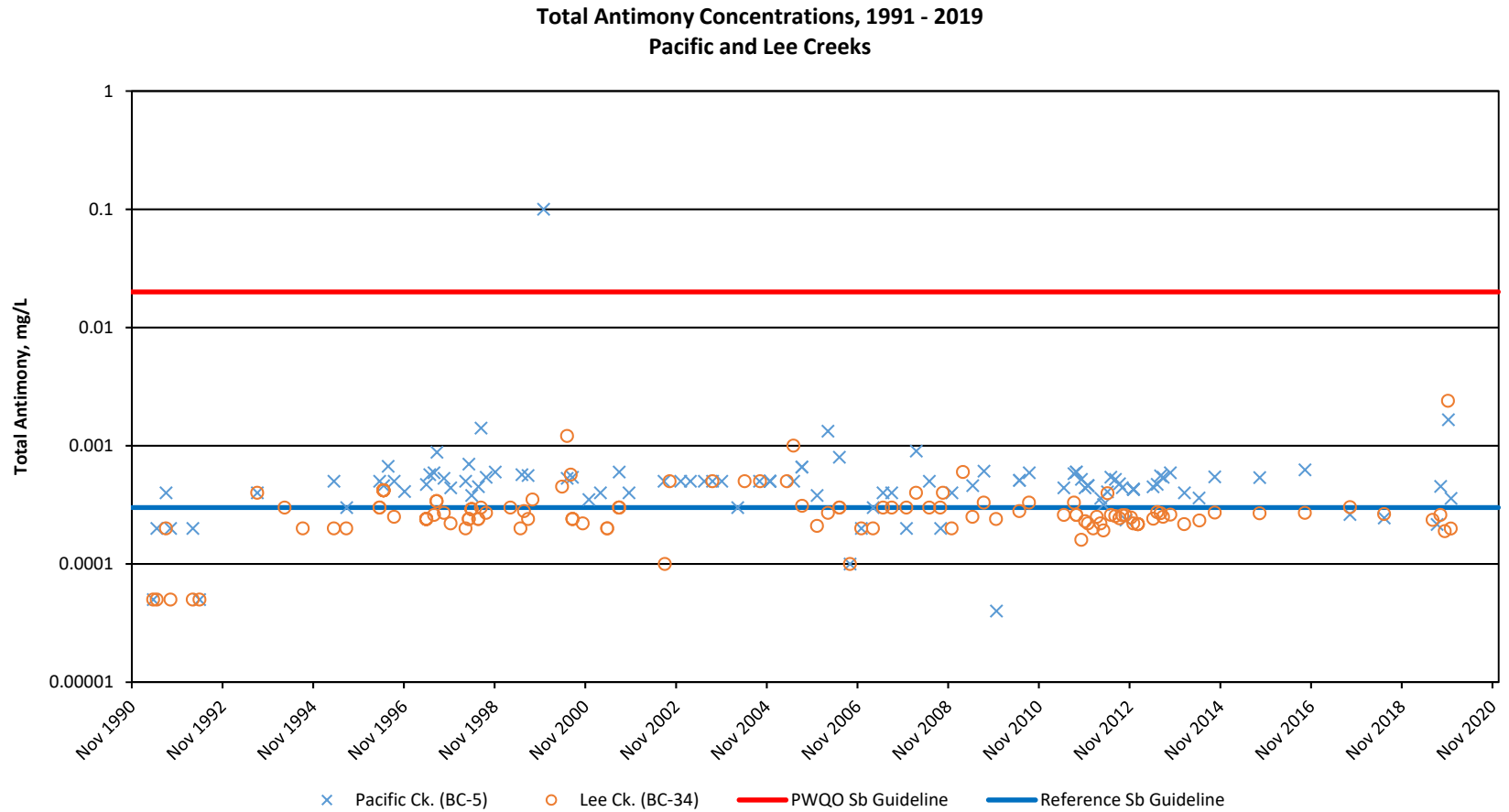


Figure B- 17: Antimony Concentrations on Pacific and Lee Creeks (1991-2019). Note Log Scale.

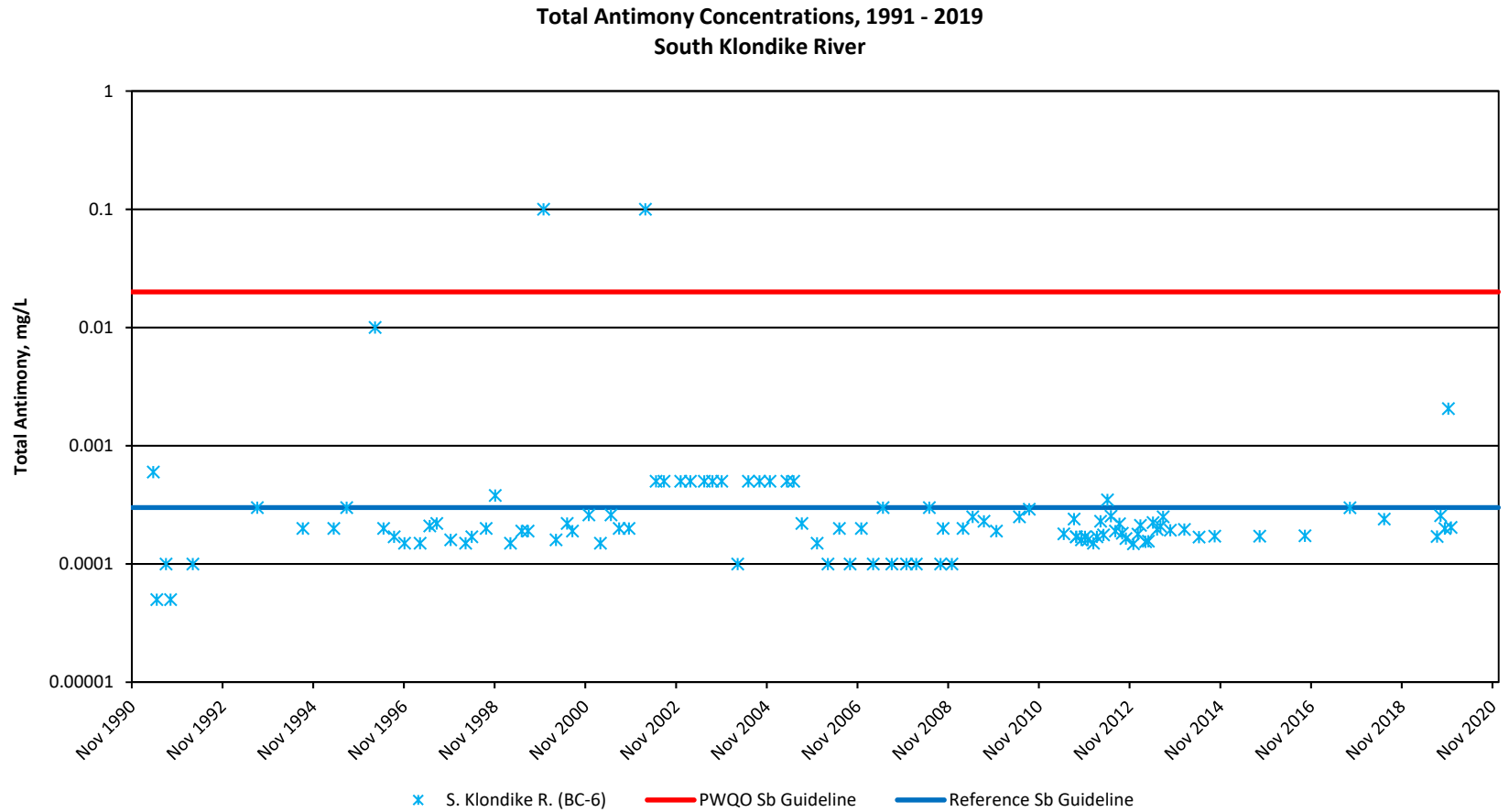


Figure B- 18: Antimony Concentrations on South Klondike River (1991-2019). Note Log Scale.

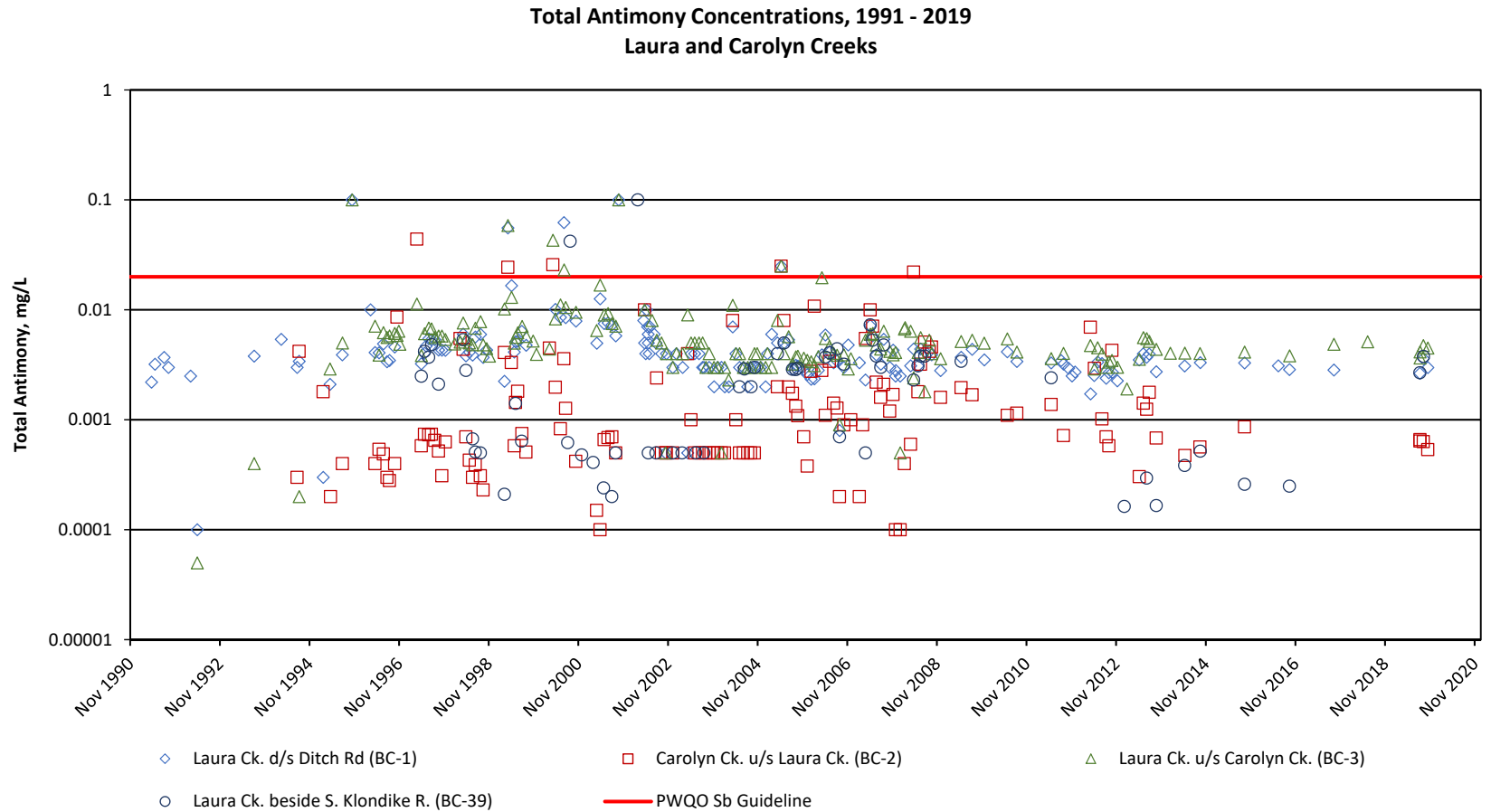


Figure B- 19: Antimony Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

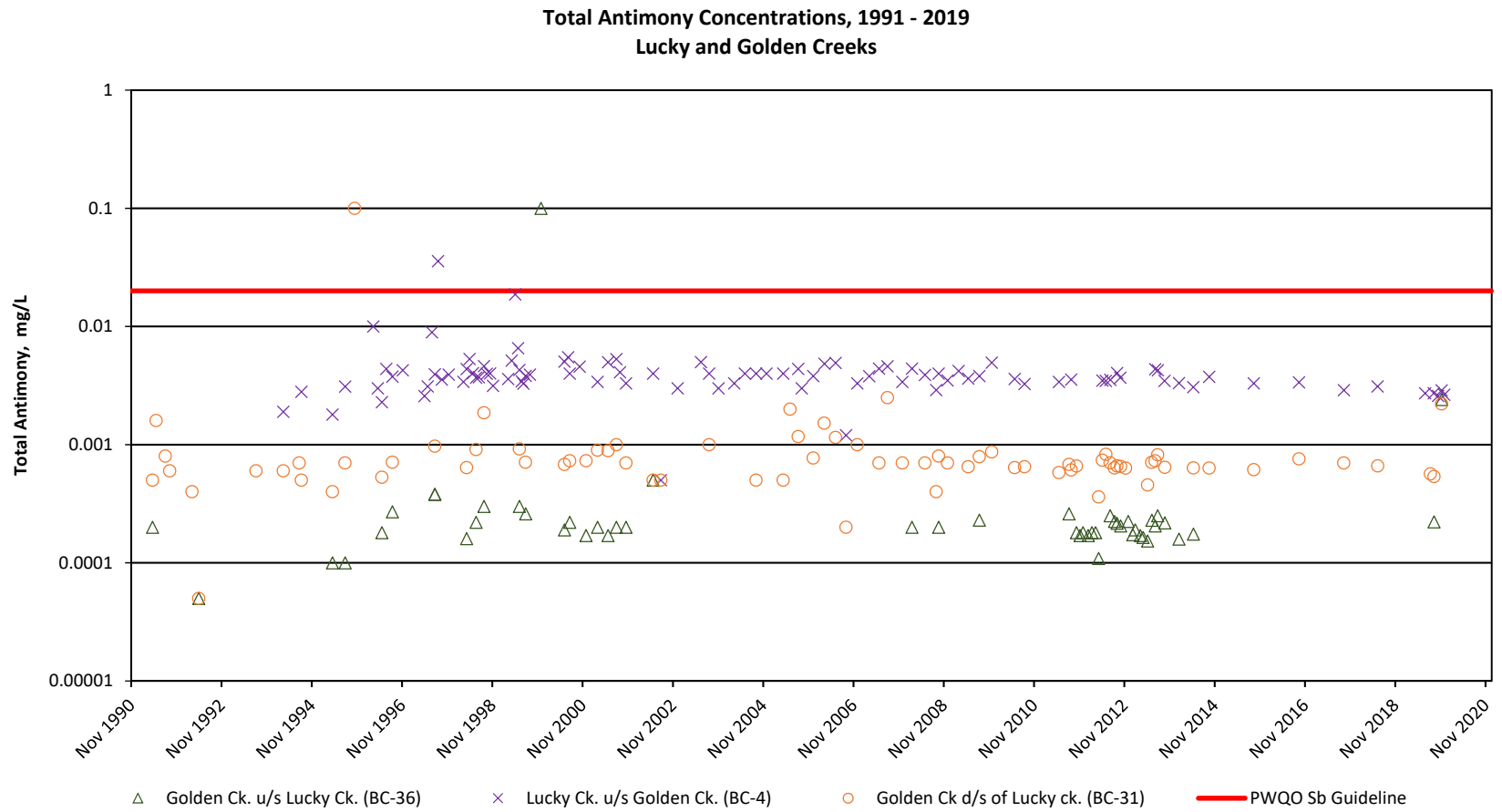


Figure B- 20: Antimony Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

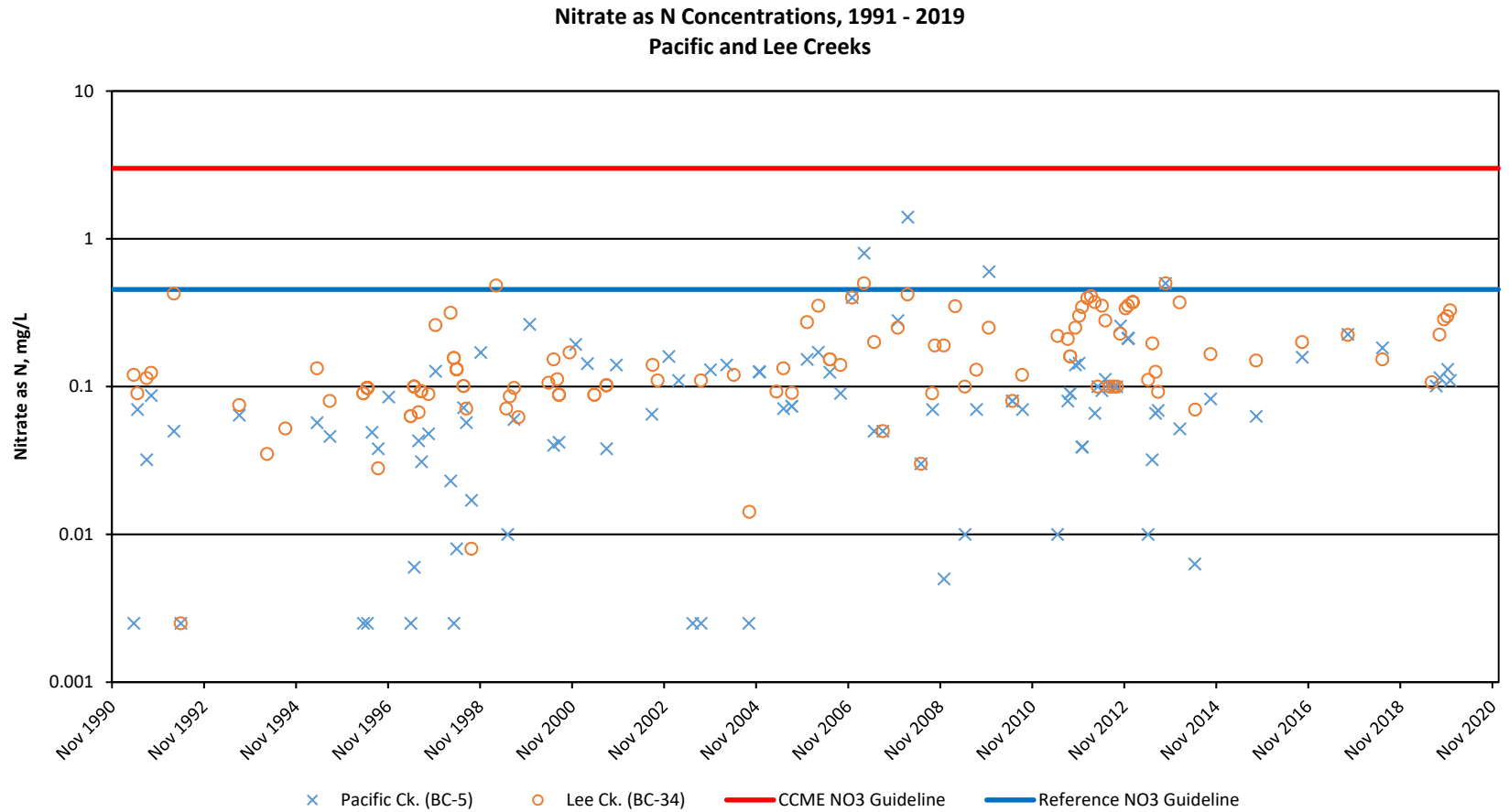


Figure B- 21: Nitrate as N Concentrations on Pacific and Lee Creeks (1991-2019). Note Log Scale.

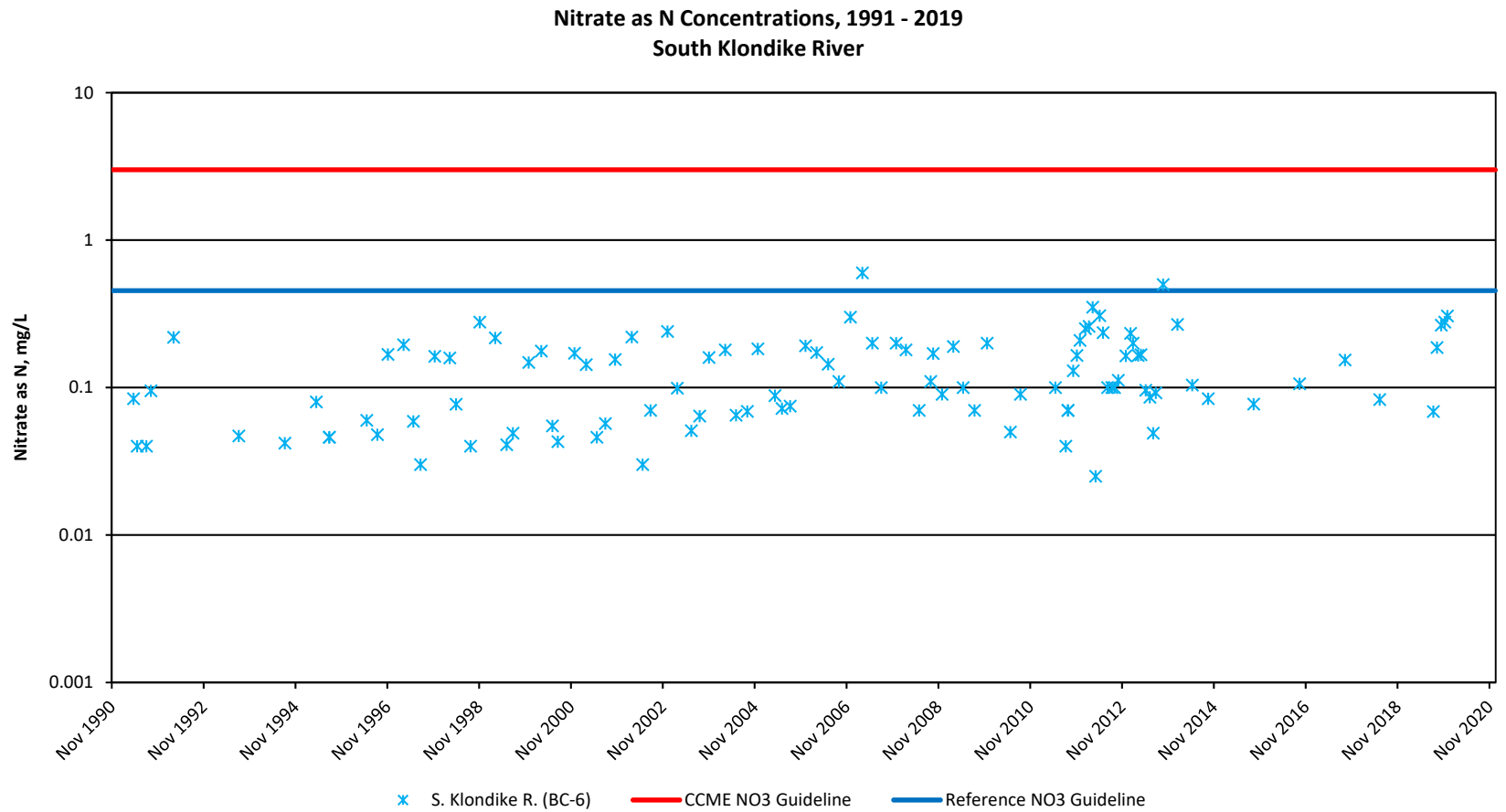


Figure B- 22: Nitrate as N Concentrations on South Klondike River (1991-2019). Note Log Scale.

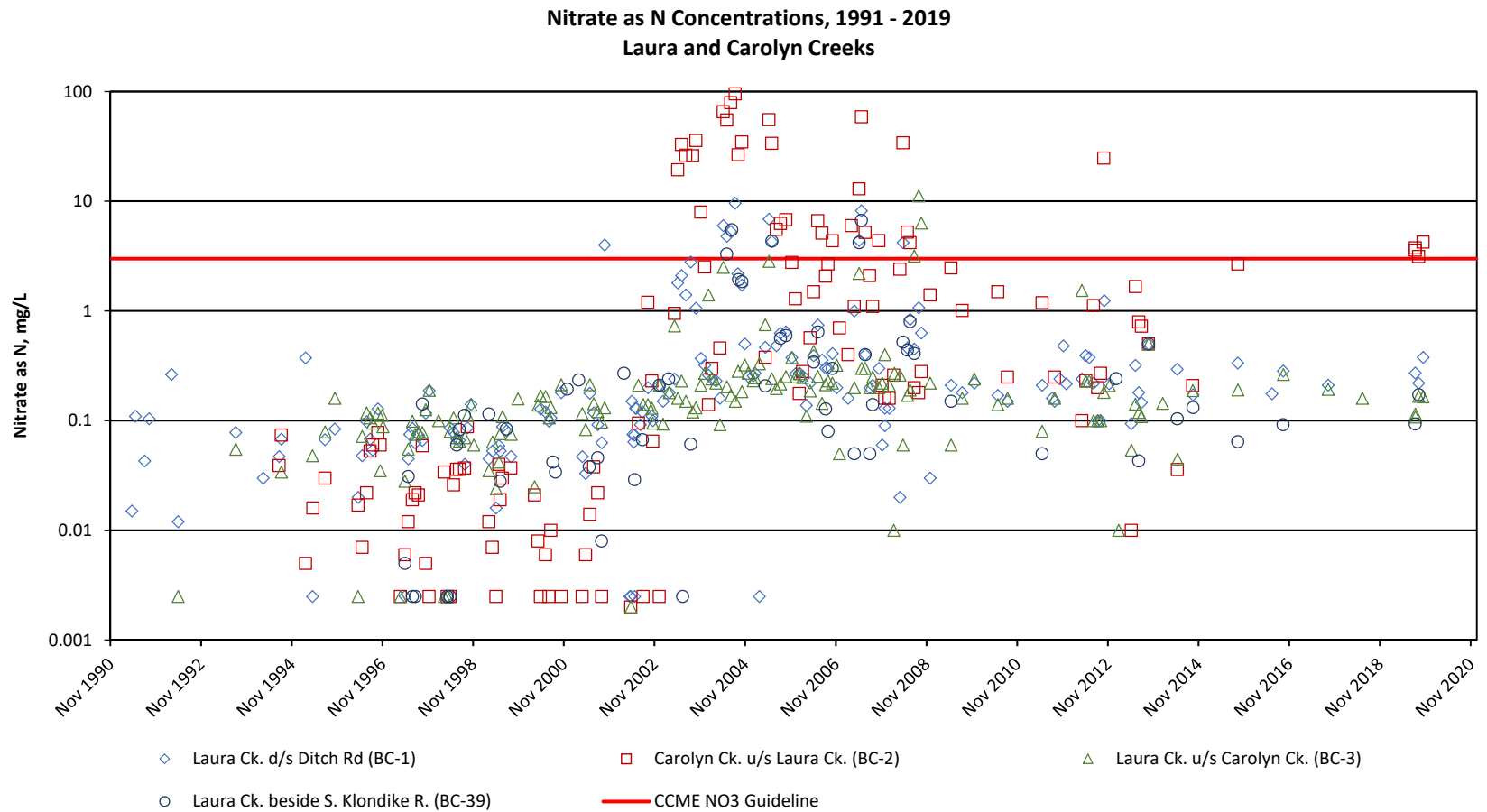


Figure B- 23: Nitrate as N Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

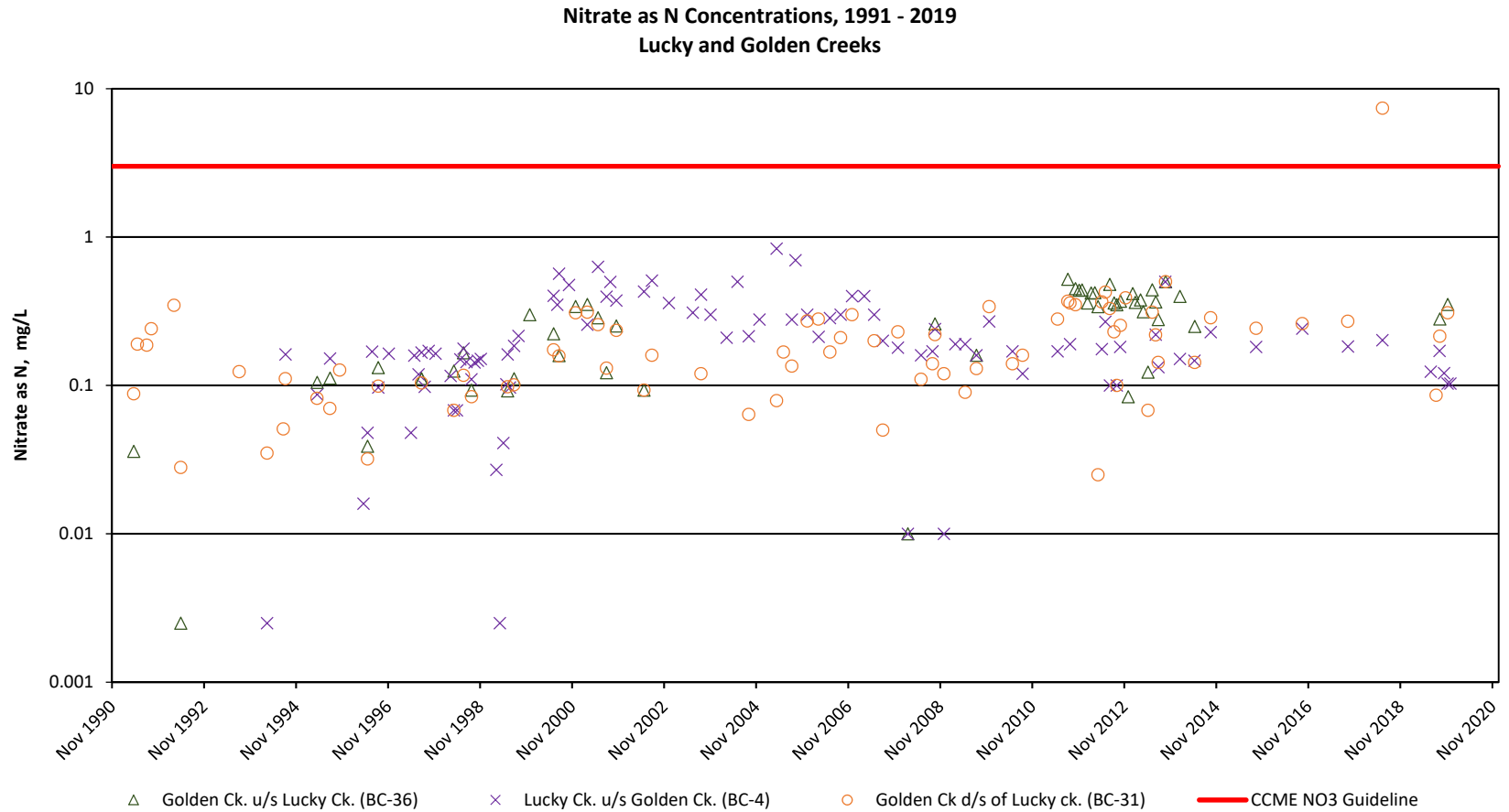


Figure B- 24: Nitrate as N Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

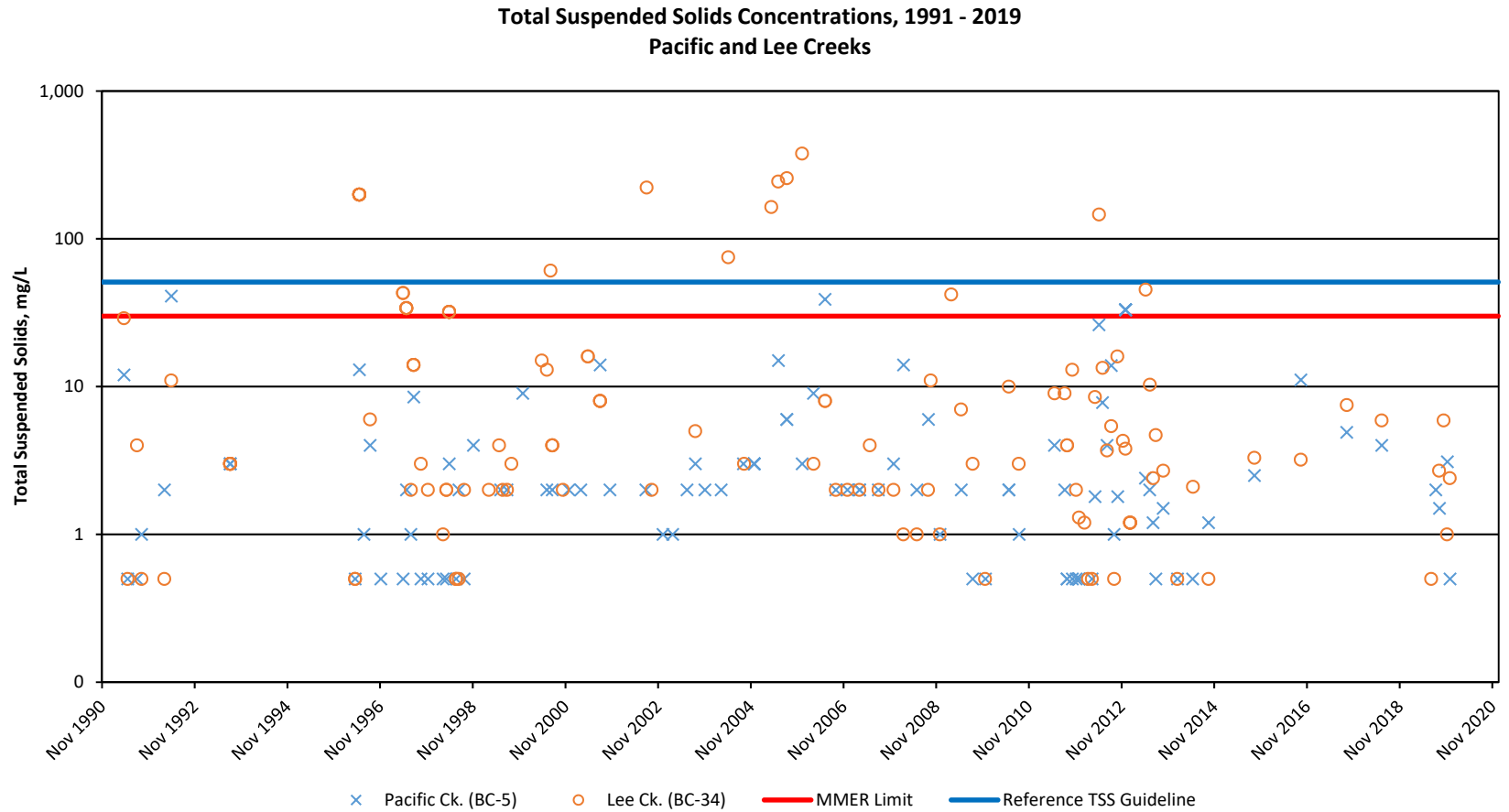


Figure B- 25: Total Suspended Solids Concentrations on Pacific and Lee Creeks (1991-2019). Note Log Scale.

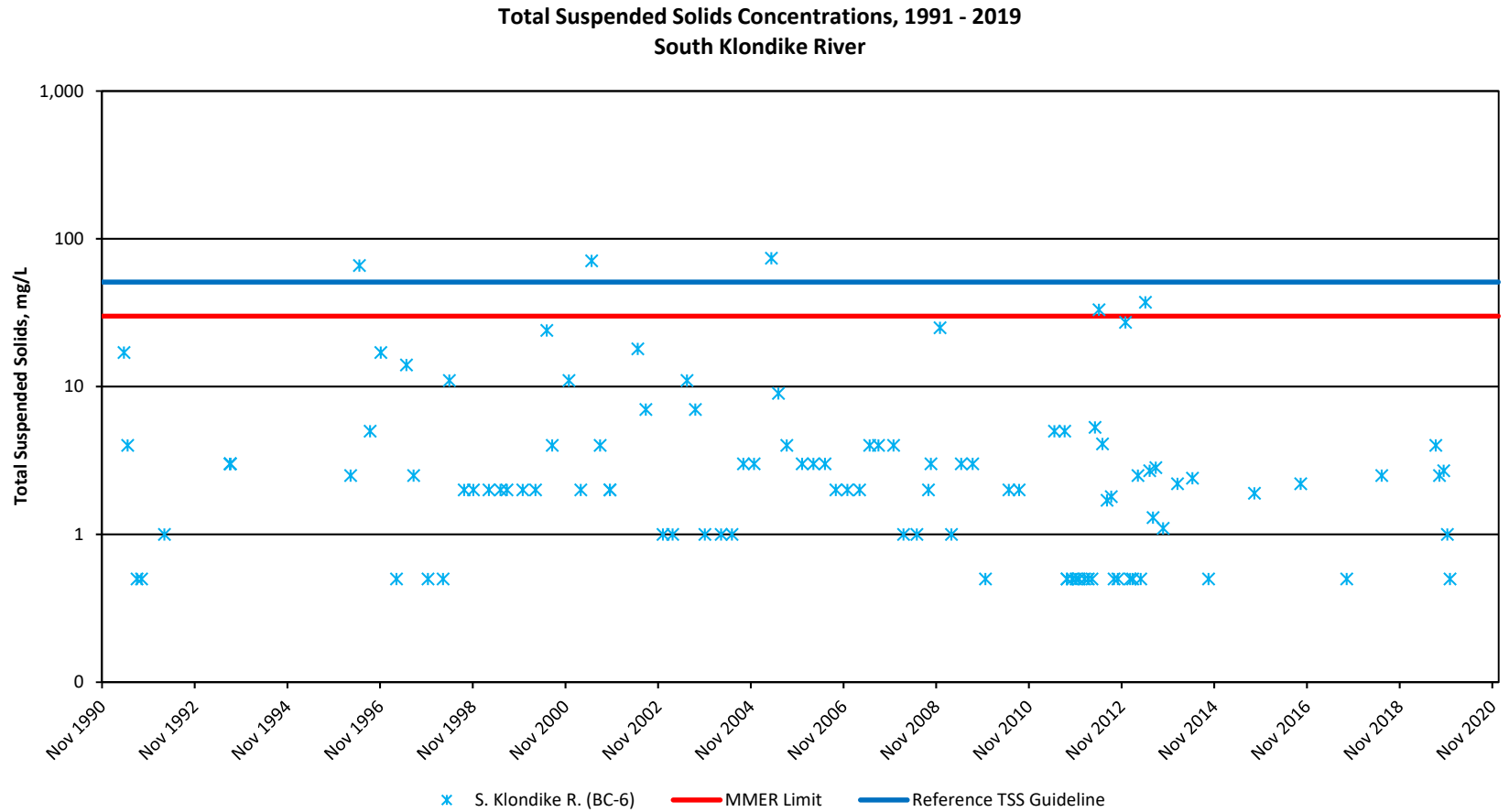


Figure B- 26: Total Suspended Solids Concentrations on South Klondike River (1991-2019). Note Log Scale.

**Total Suspended Solids Concentrations, 1991 - 2019
 Laura and Carolyn Creeks**

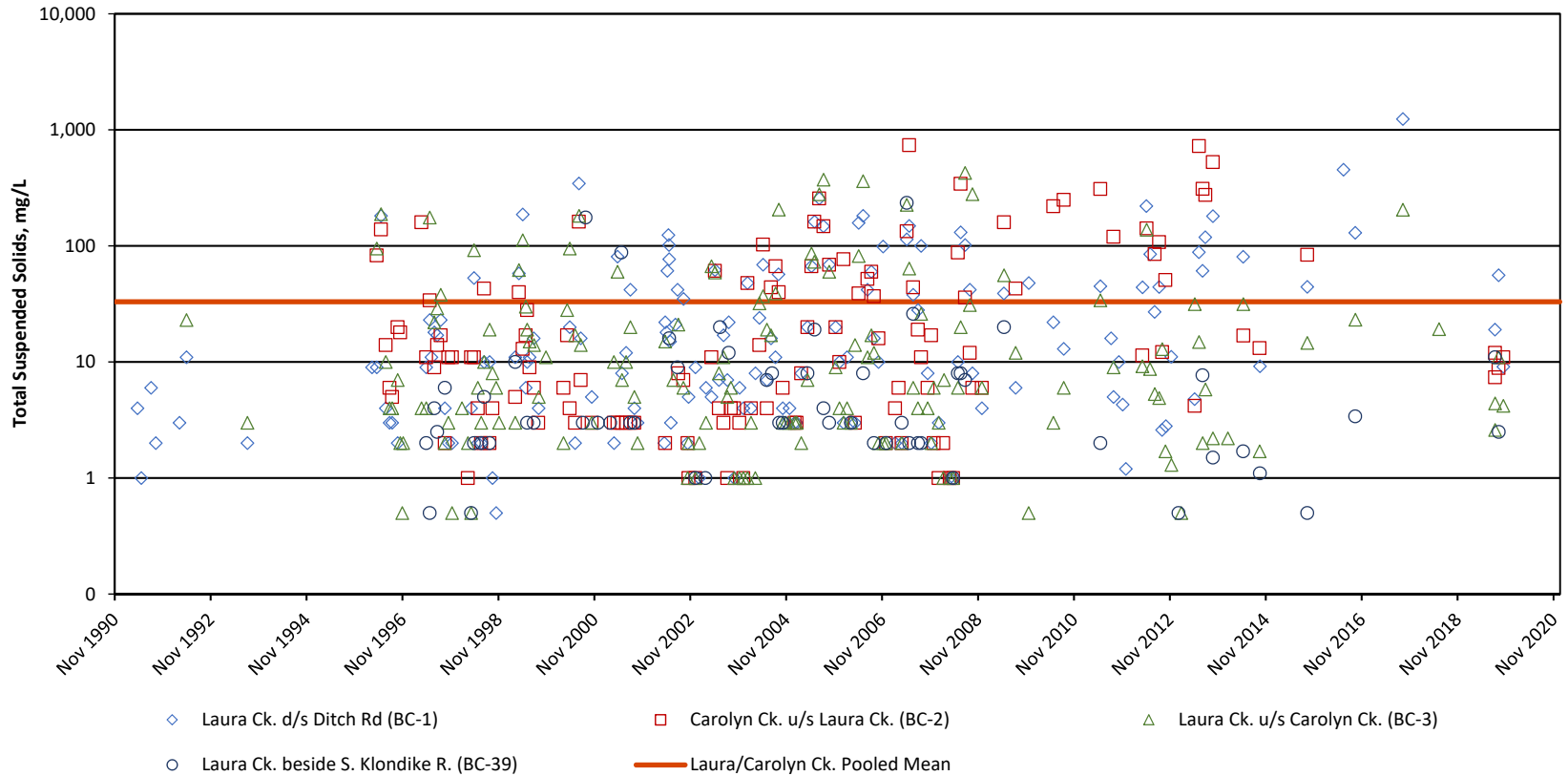


Figure B- 27: Total Suspended Solids Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

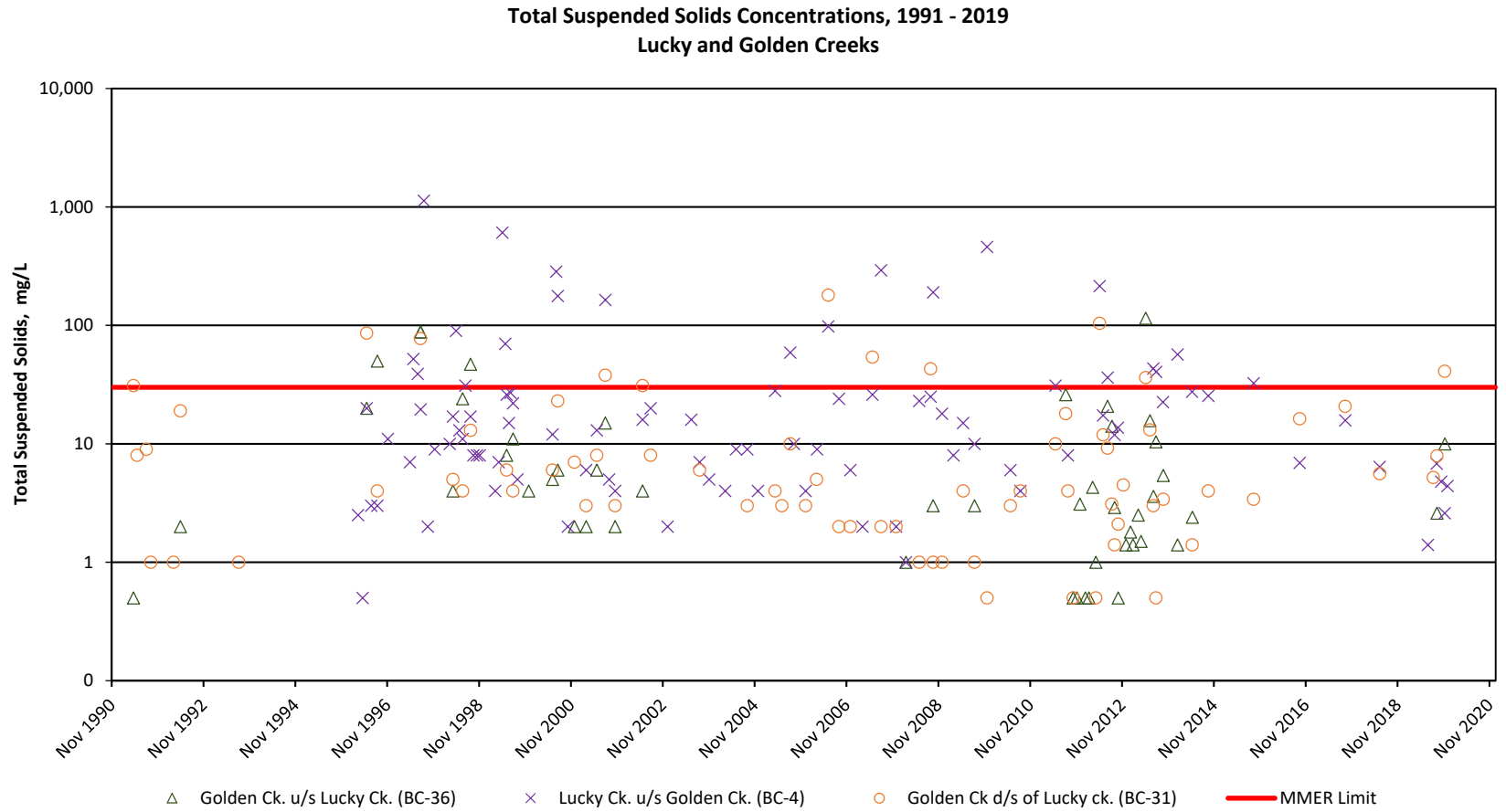


Figure B- 28: Total Suspended Solids Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

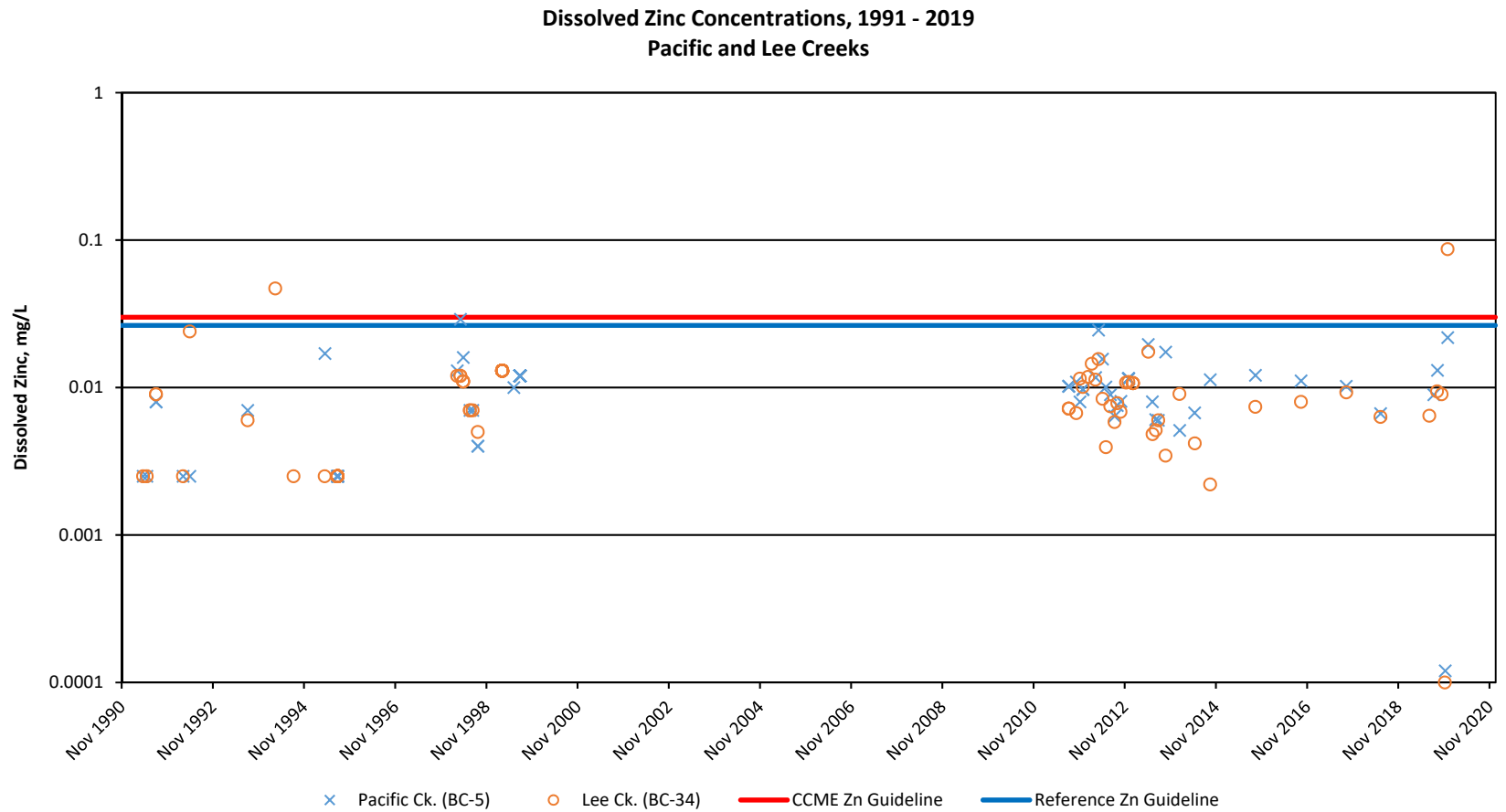


Figure B- 29: Zinc Concentrations on Pacific and Lee Creeks (1991-2019). Note Log Scale.

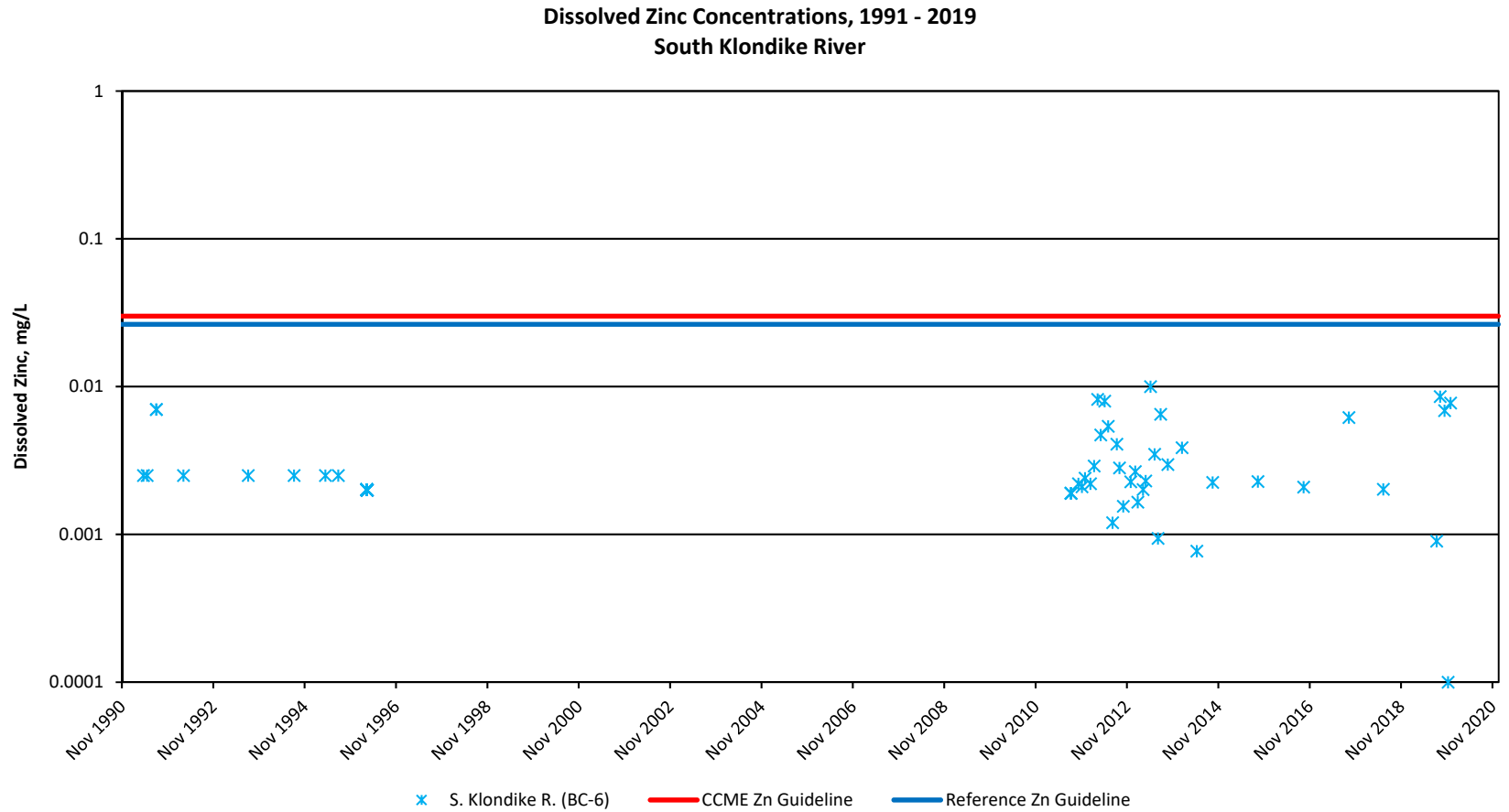


Figure B- 30: Zinc Concentrations on South Klondike River (1991-2019). Note Log Scale.

**Dissolved Zinc Concentrations, 1991 - 2019
 Laura and Carolyn Creeks**

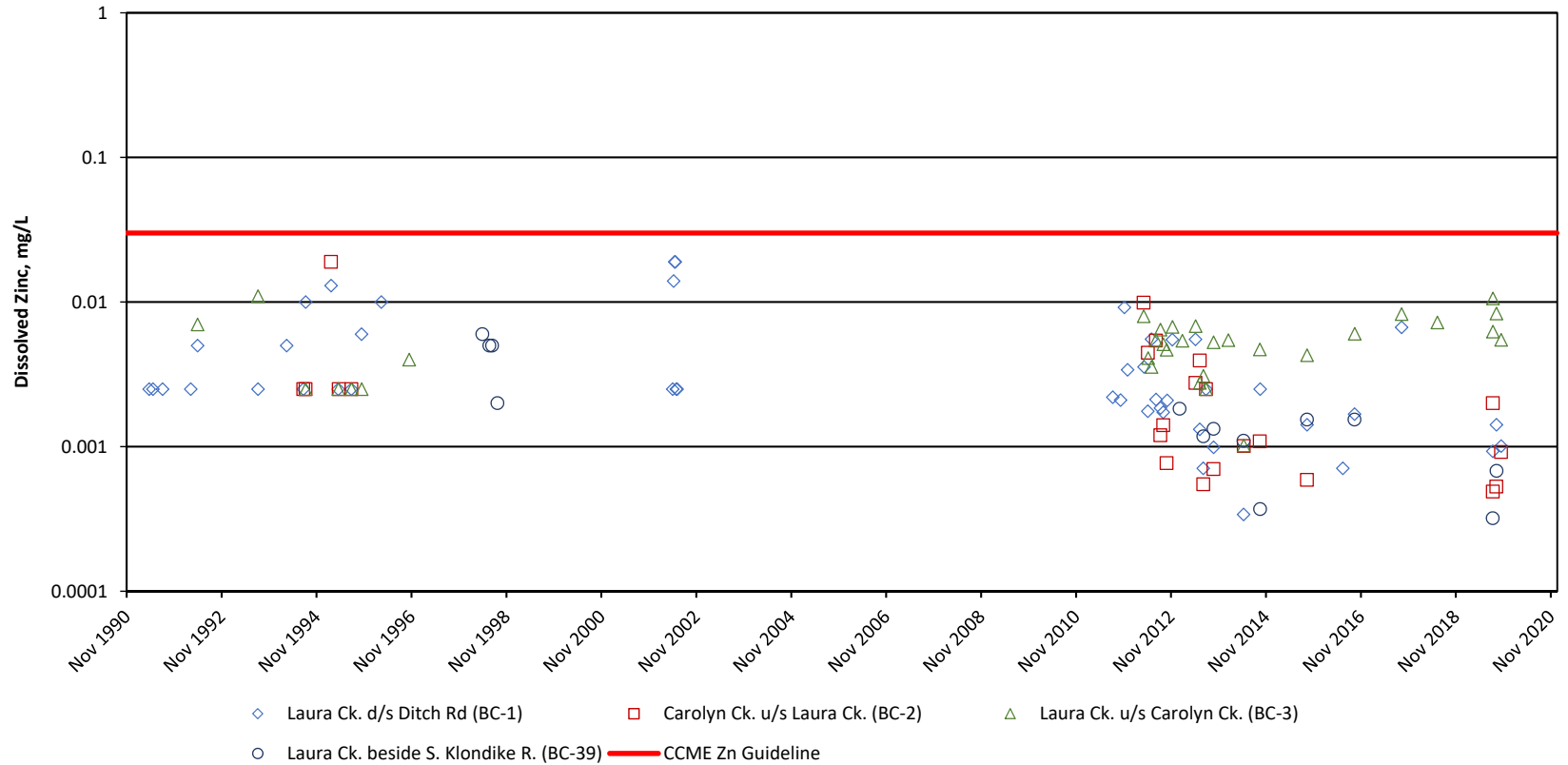


Figure B- 31: Zinc Concentrations on Laura and Carolyn Creeks (1991-2019). Note Log Scale.

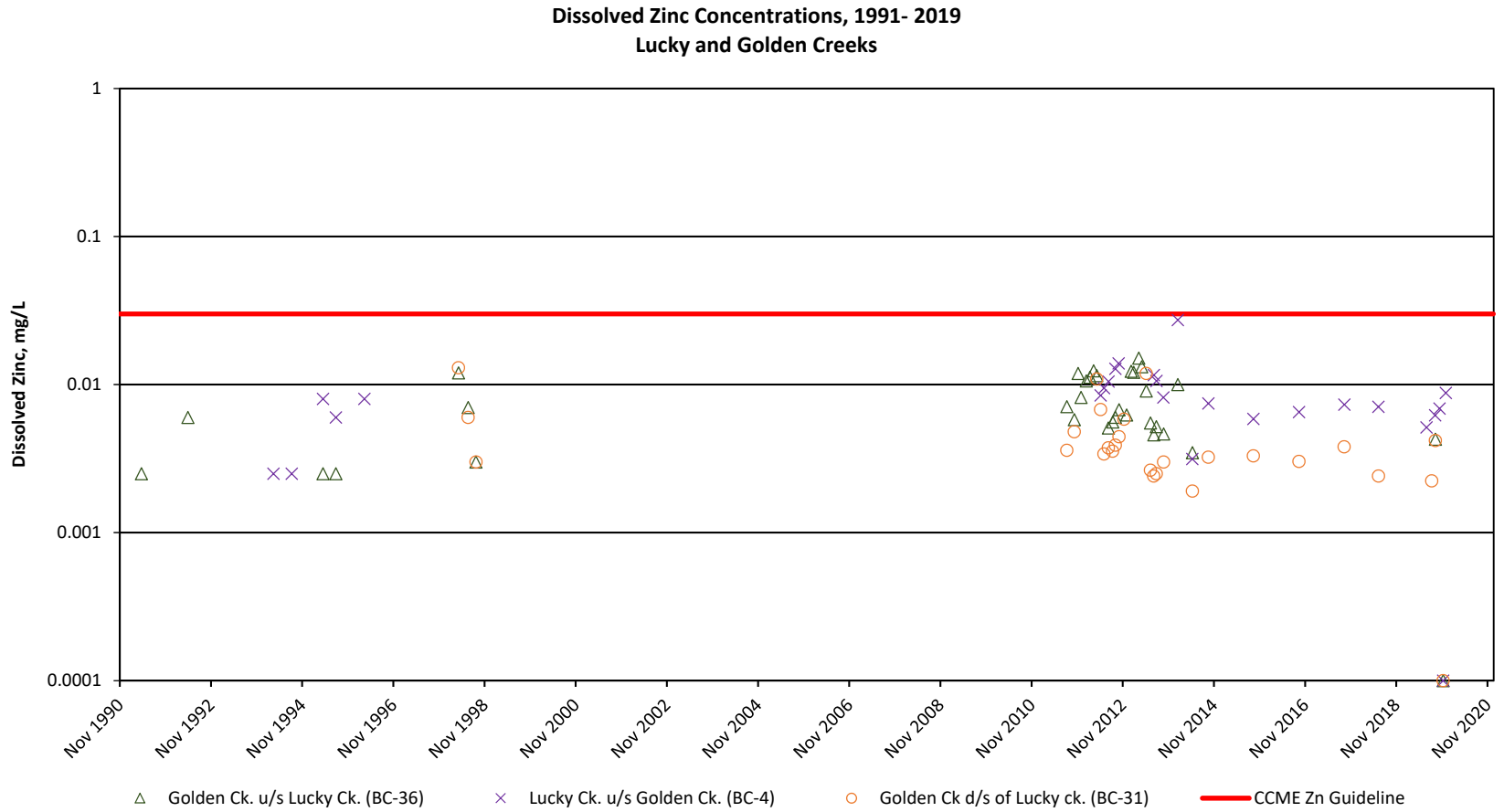


Figure B- 32: Zinc Concentrations on Lucky and Golden Creeks (1991-2019). Note Log Scale.

APPENDIX C. Groundwater Data Plots

**Ammonia as N Concentrations, 1994-2019
 Heap Monitoring Piezometers BC-19, BC-20, and BC-21**

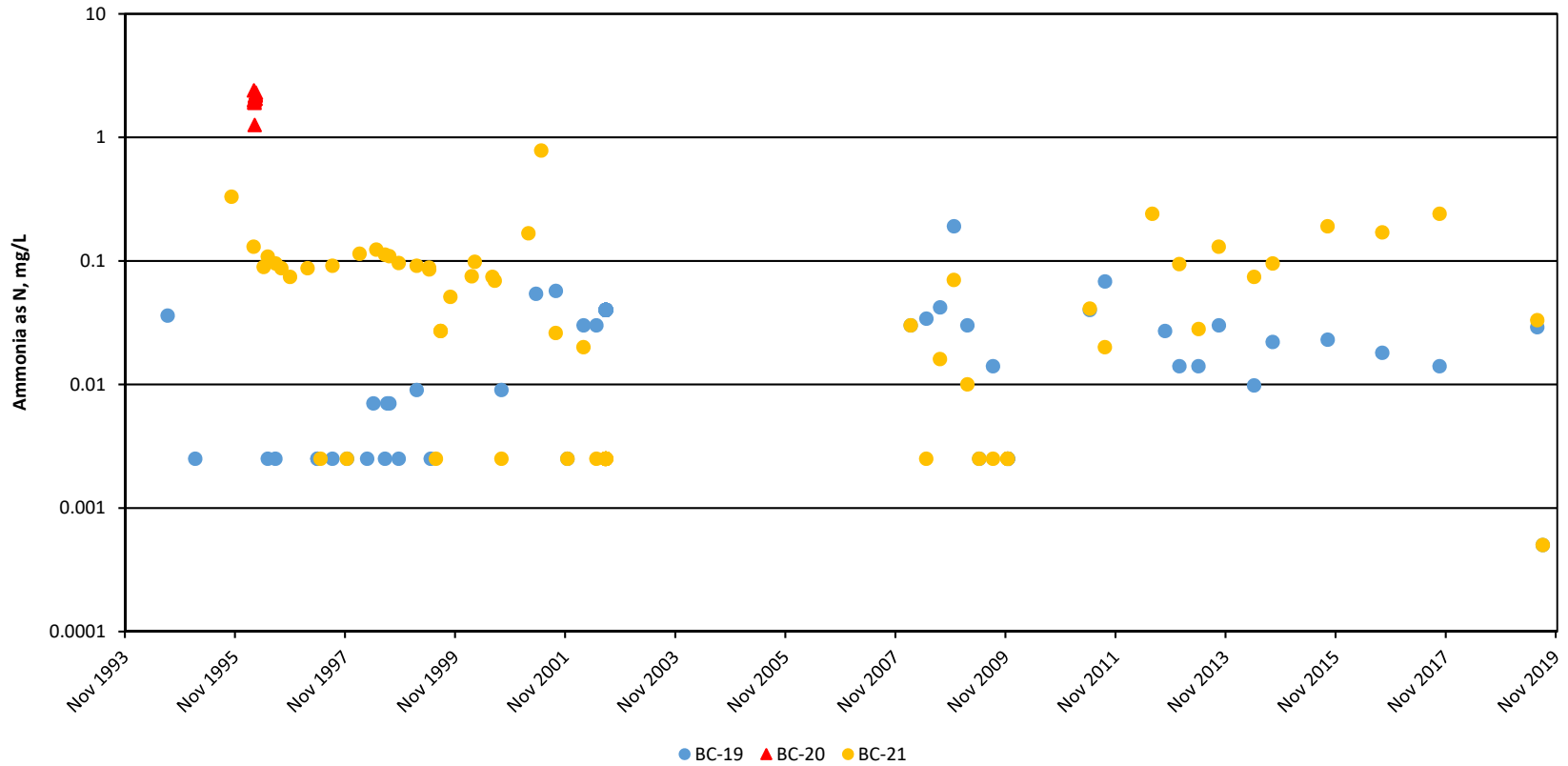


Figure C- 1: Ammonia as N Concentrations on Heap (1994-2019). Note Log Scale.

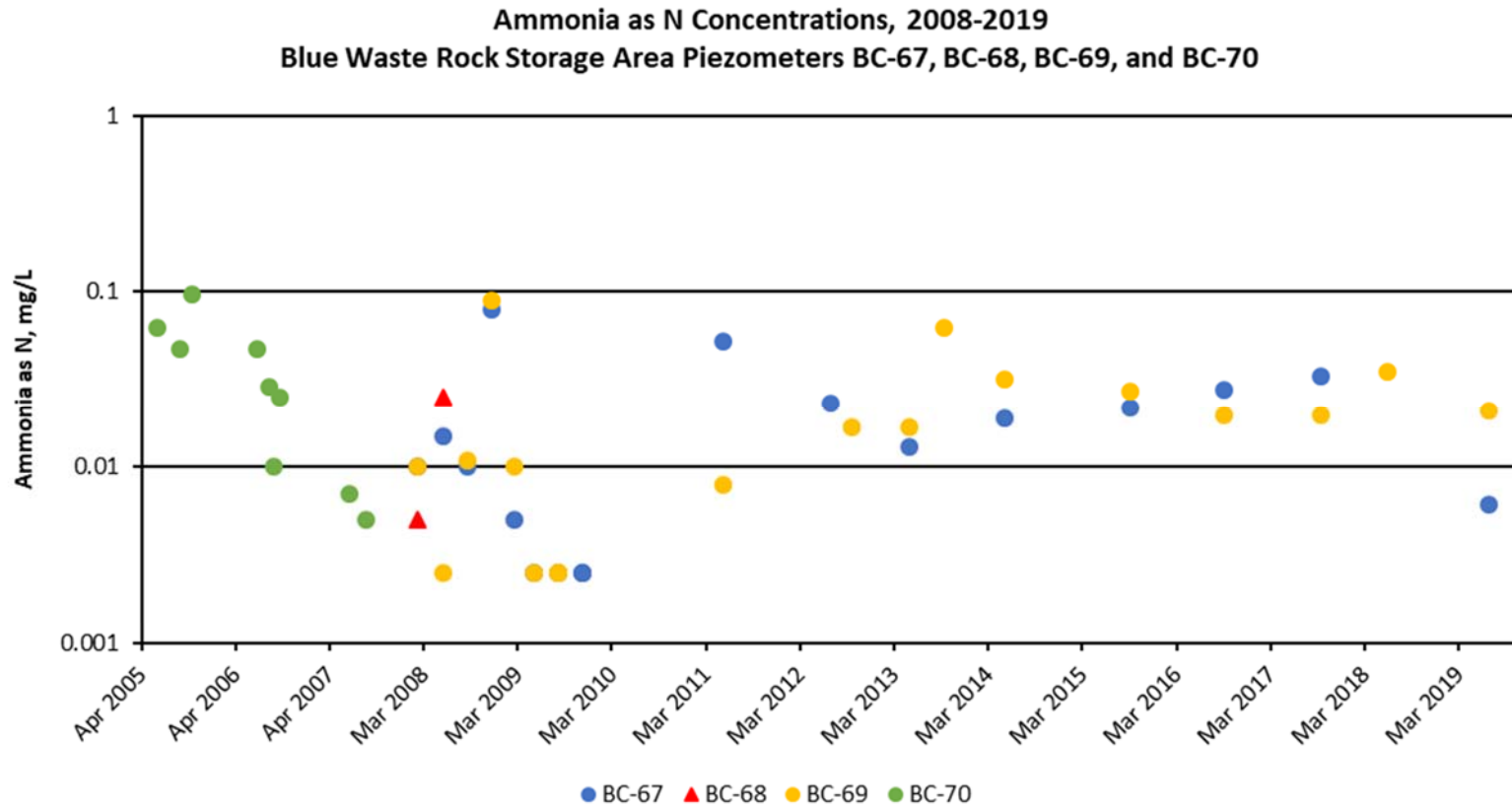


Figure C- 2: Ammonia as N Concentrations on Blue Water Rock Storage Area (2008-2019). Note Log Scale.

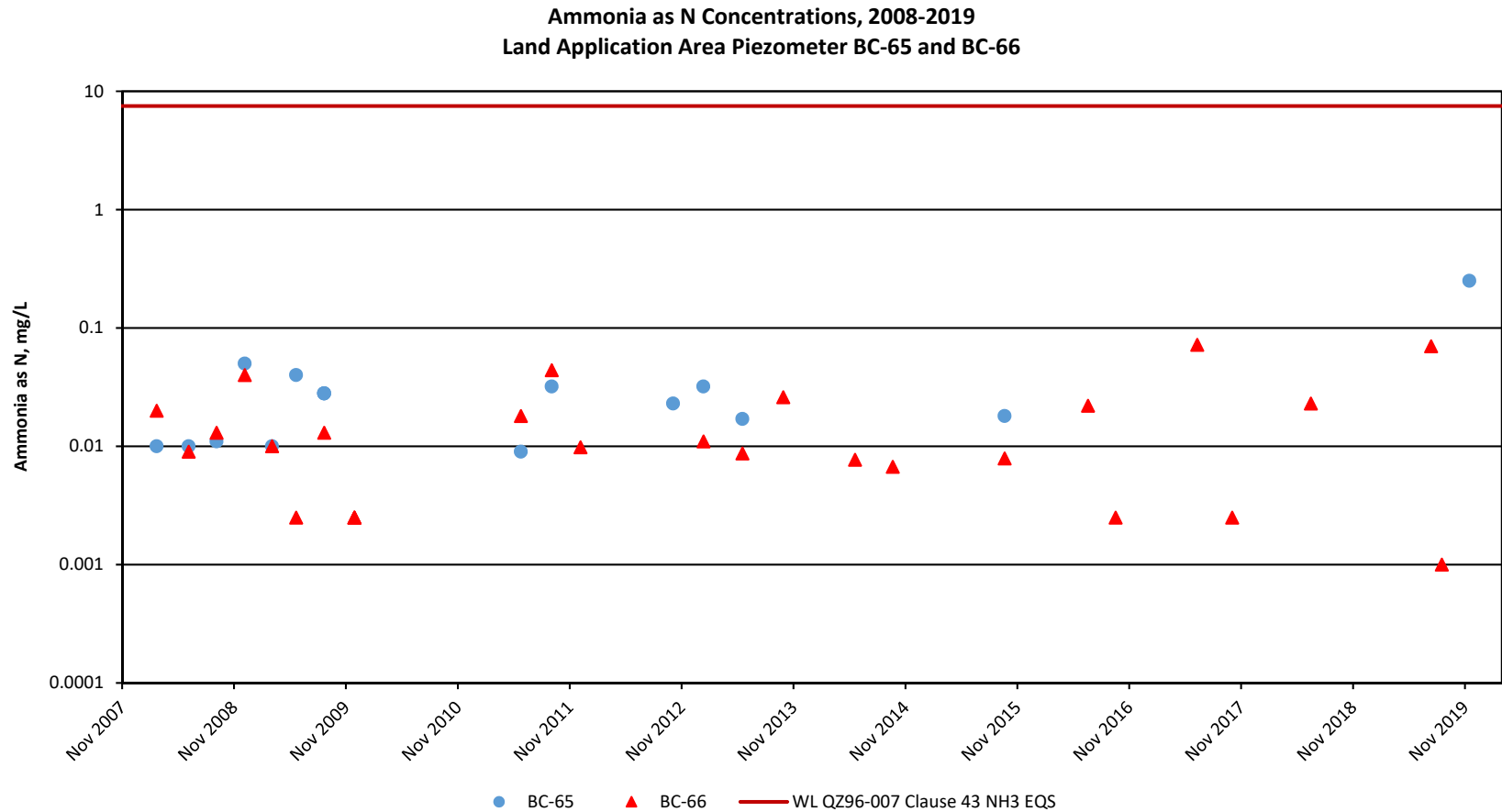


Figure C- 3: Ammonia as N Concentrations on Land Application Area (2008-2019). Note Log Scale.

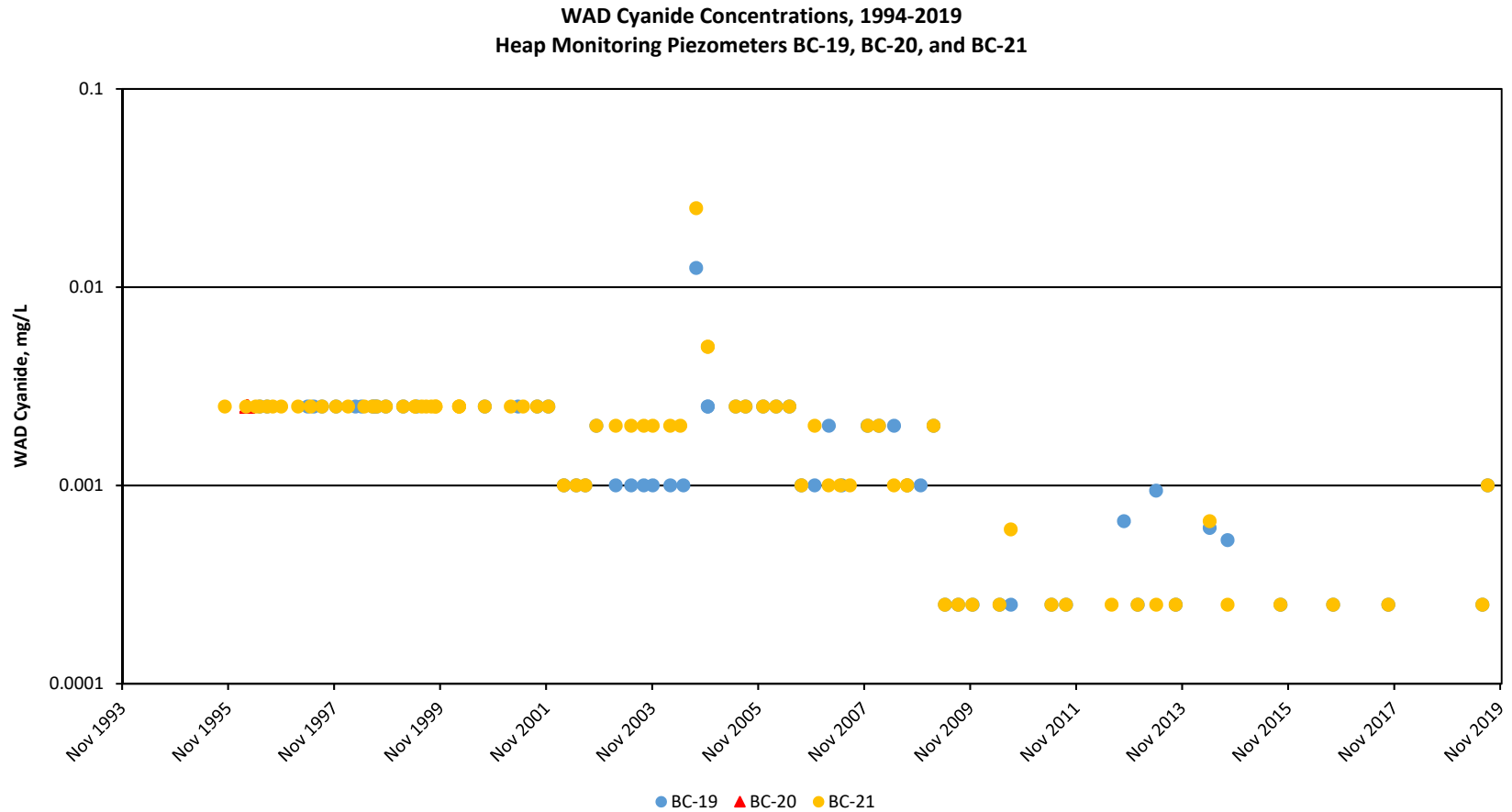


Figure C- 4: WAD Cyanide Concentrations on Heap (1994-2019). Note Log Scale.

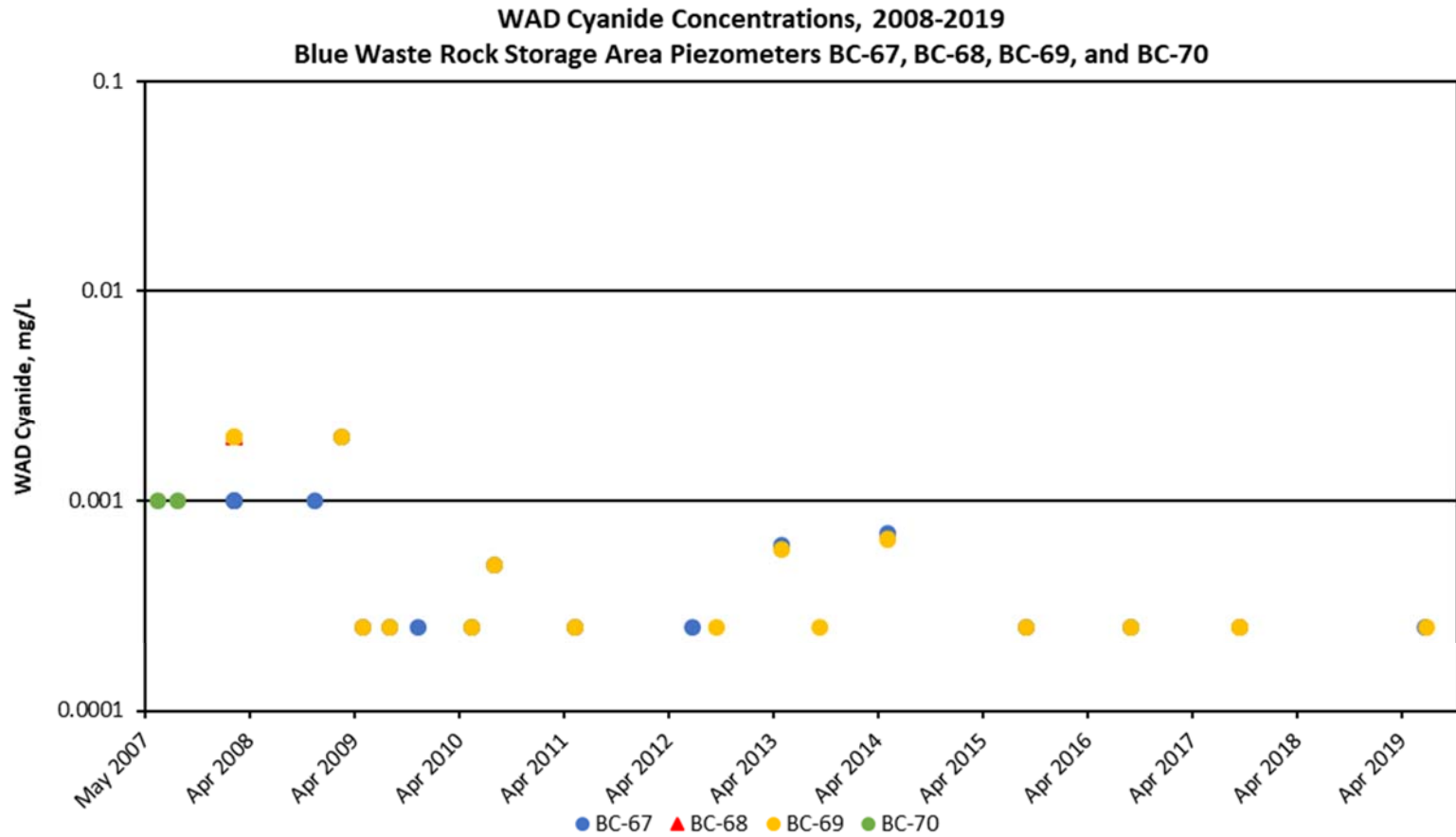


Figure C- 5: WAD Cyanide Concentrations on Blue Waste Rock Storage Area (2008-2019). Note Log Scale.

WAD Cyanide Concentrations, 2008-2019
Land Application Area Piezometer BC-65 and BC-66

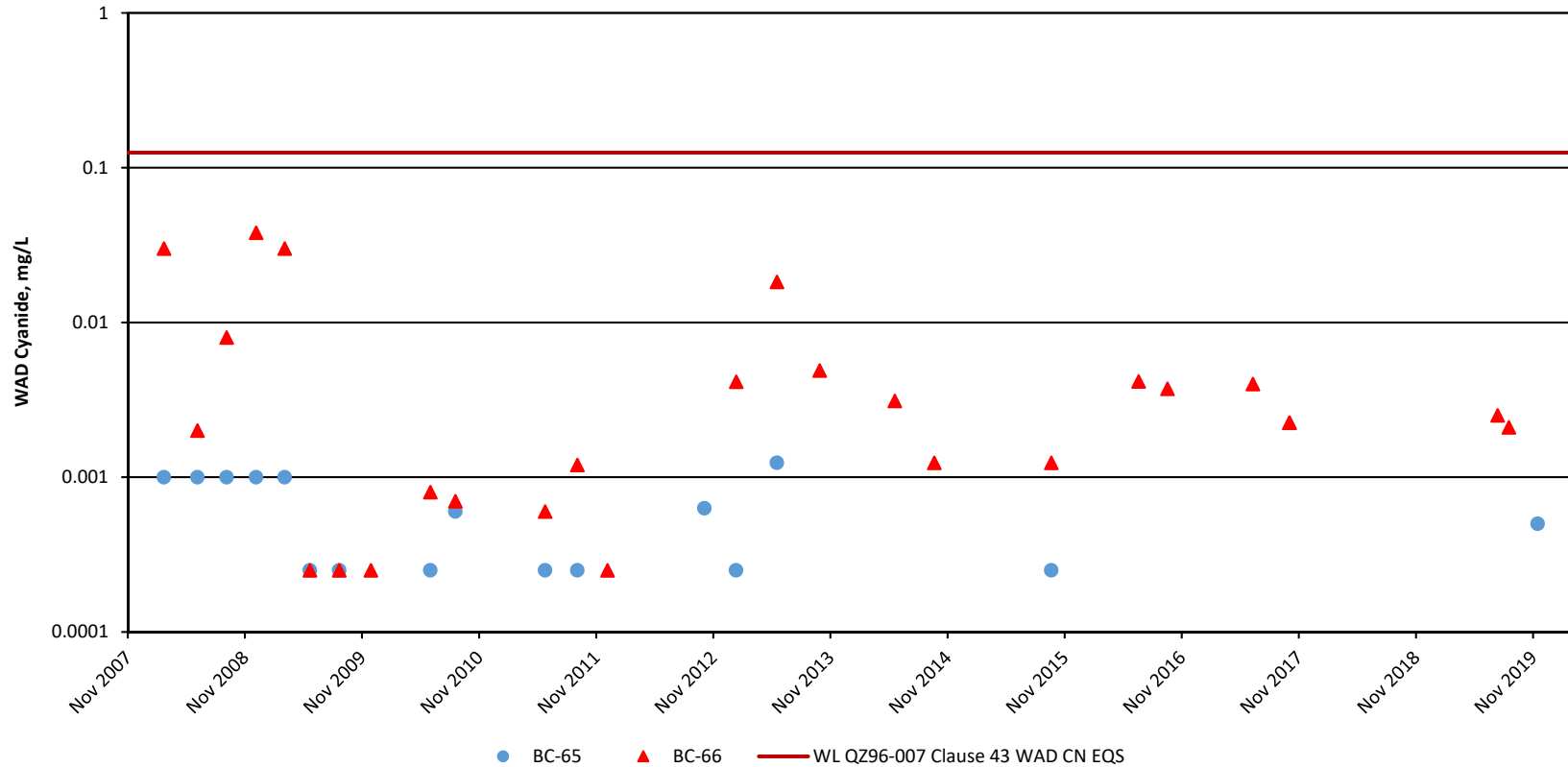


Figure C- 6: WAD Cyanide Concentrations on Land Application Area (2008-2019). Note Log Scale.

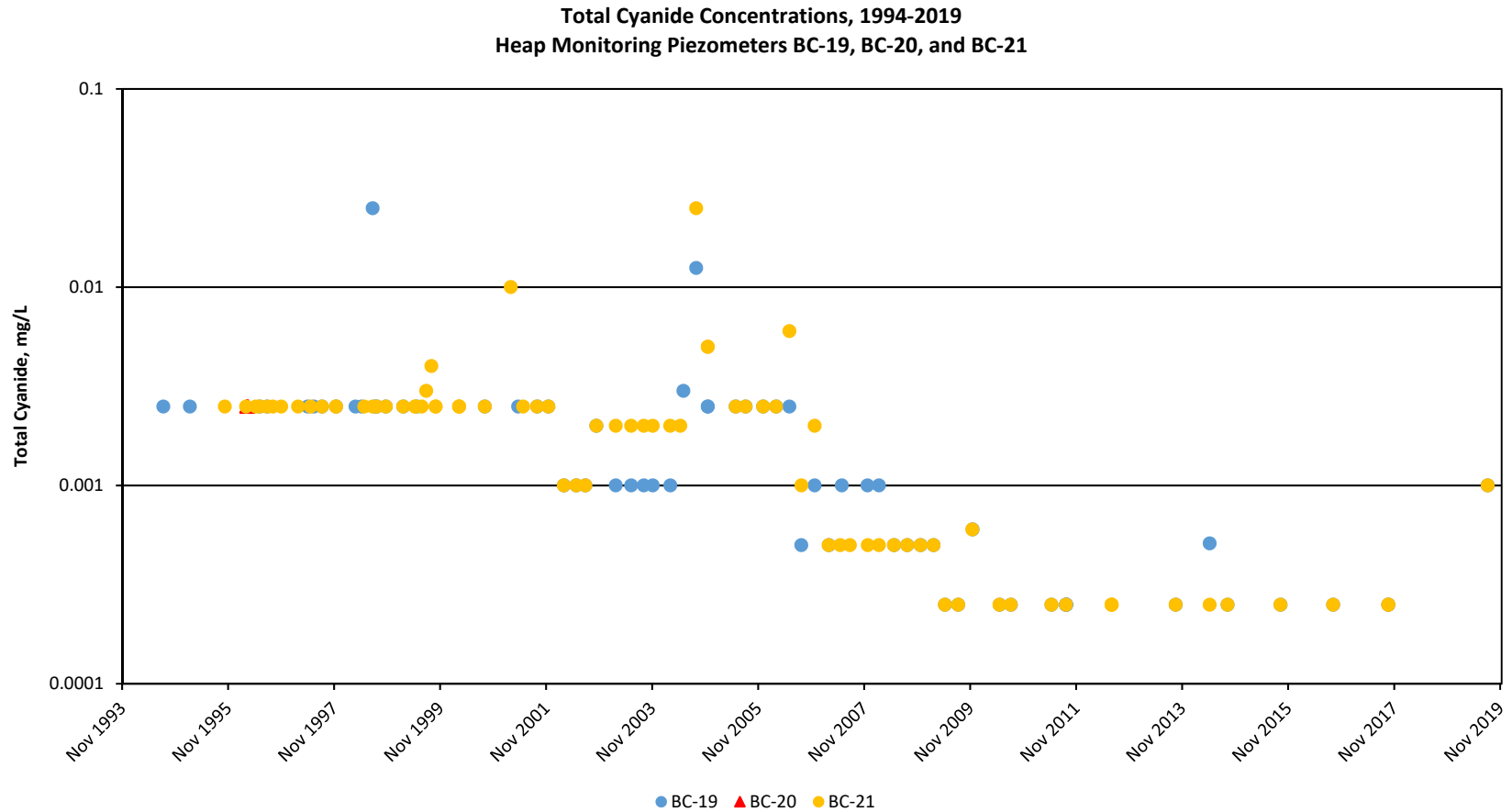


Figure C- 7: Cyanide Concentrations on Heap (1994-2019). Note Log Scale.

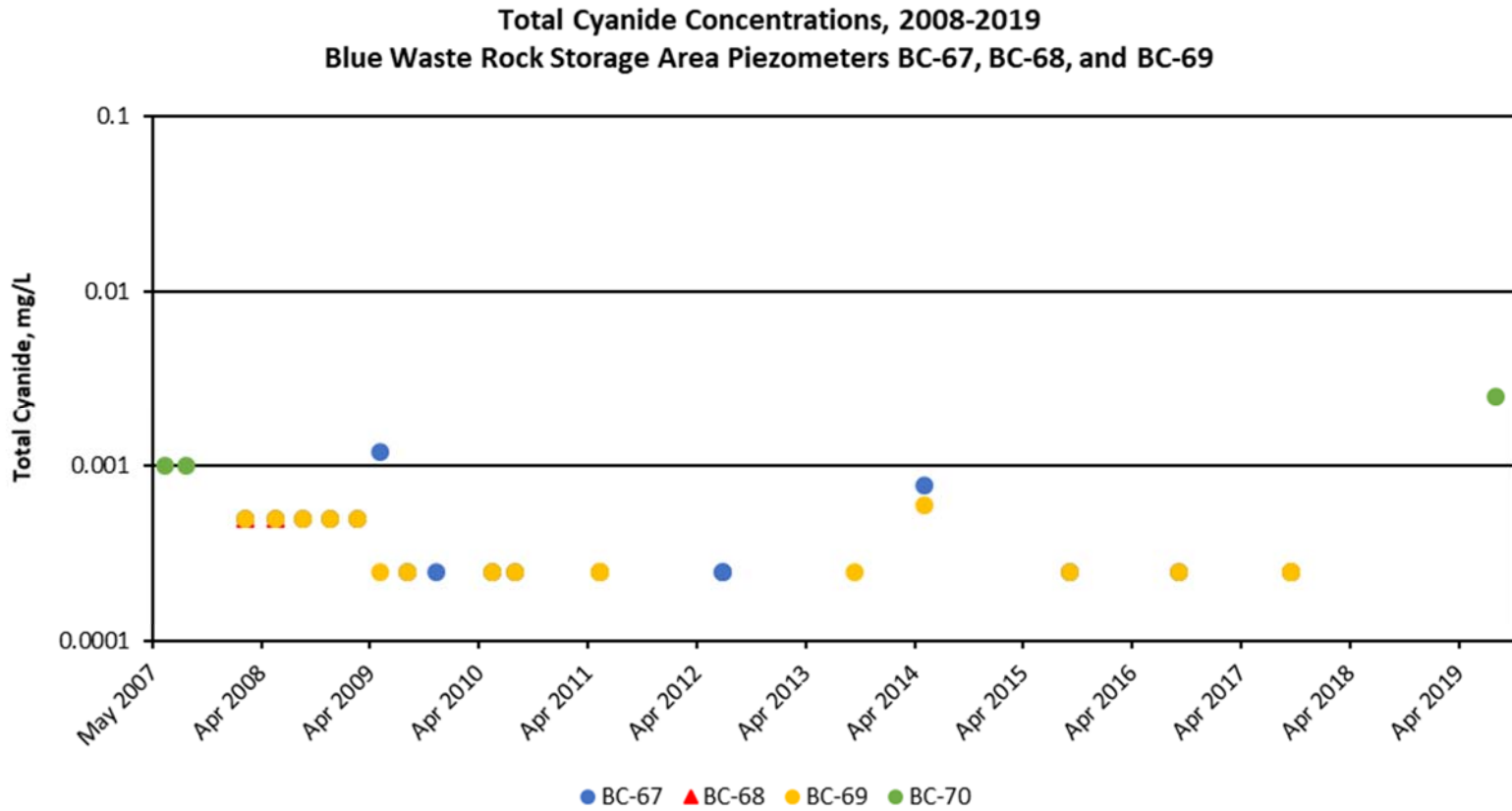


Figure C- 8: Cyanide Concentrations on Blue Waste Rock Storage Area (2008-2019). Note Log Scale.

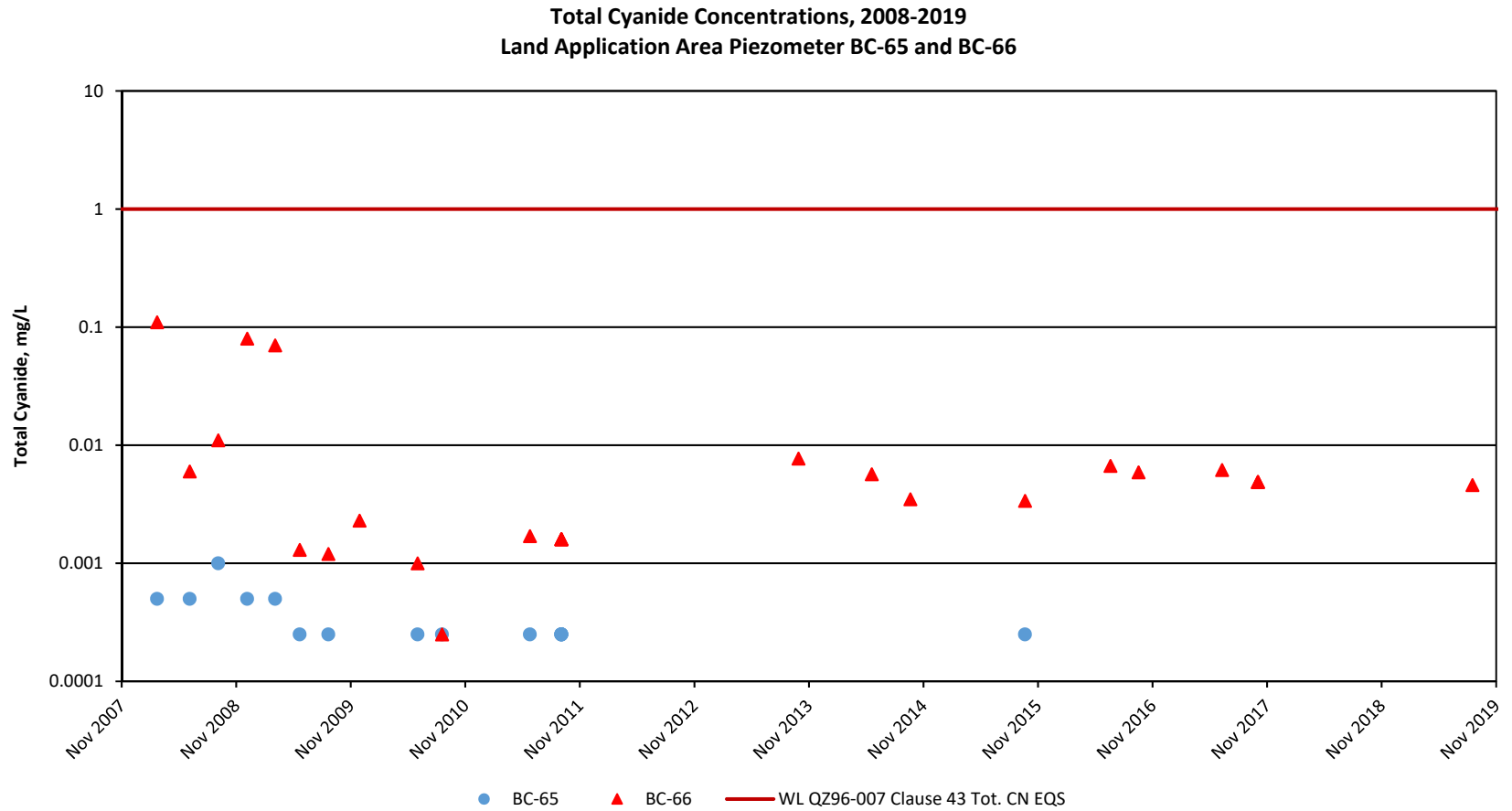


Figure C- 9: Cyanide Concentrations on Land Application Area (2008-2019). Note Log Scale.

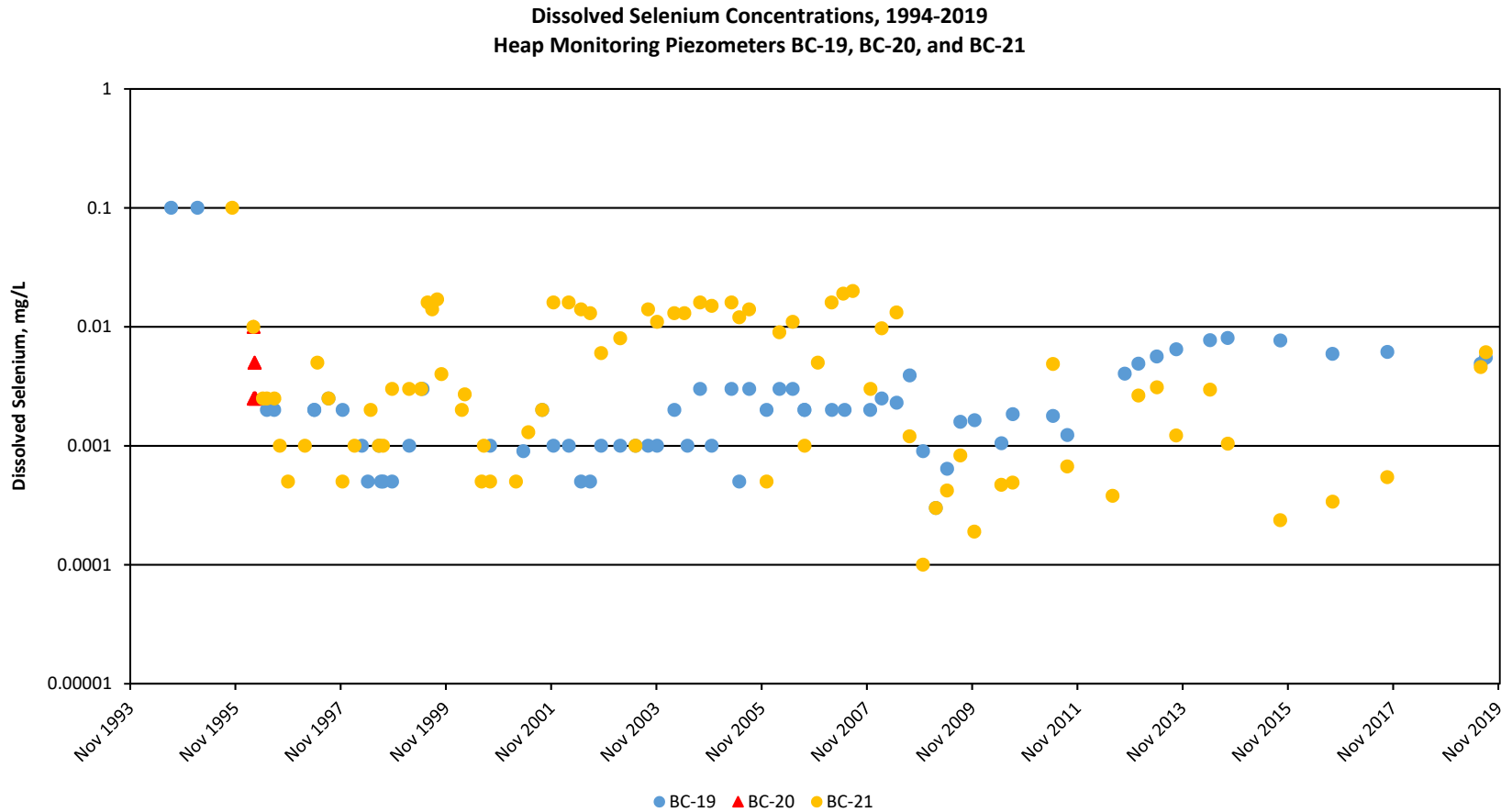


Figure C- 10: Selenium Concentrations on Heap (1994-2019). Note Log Scale.

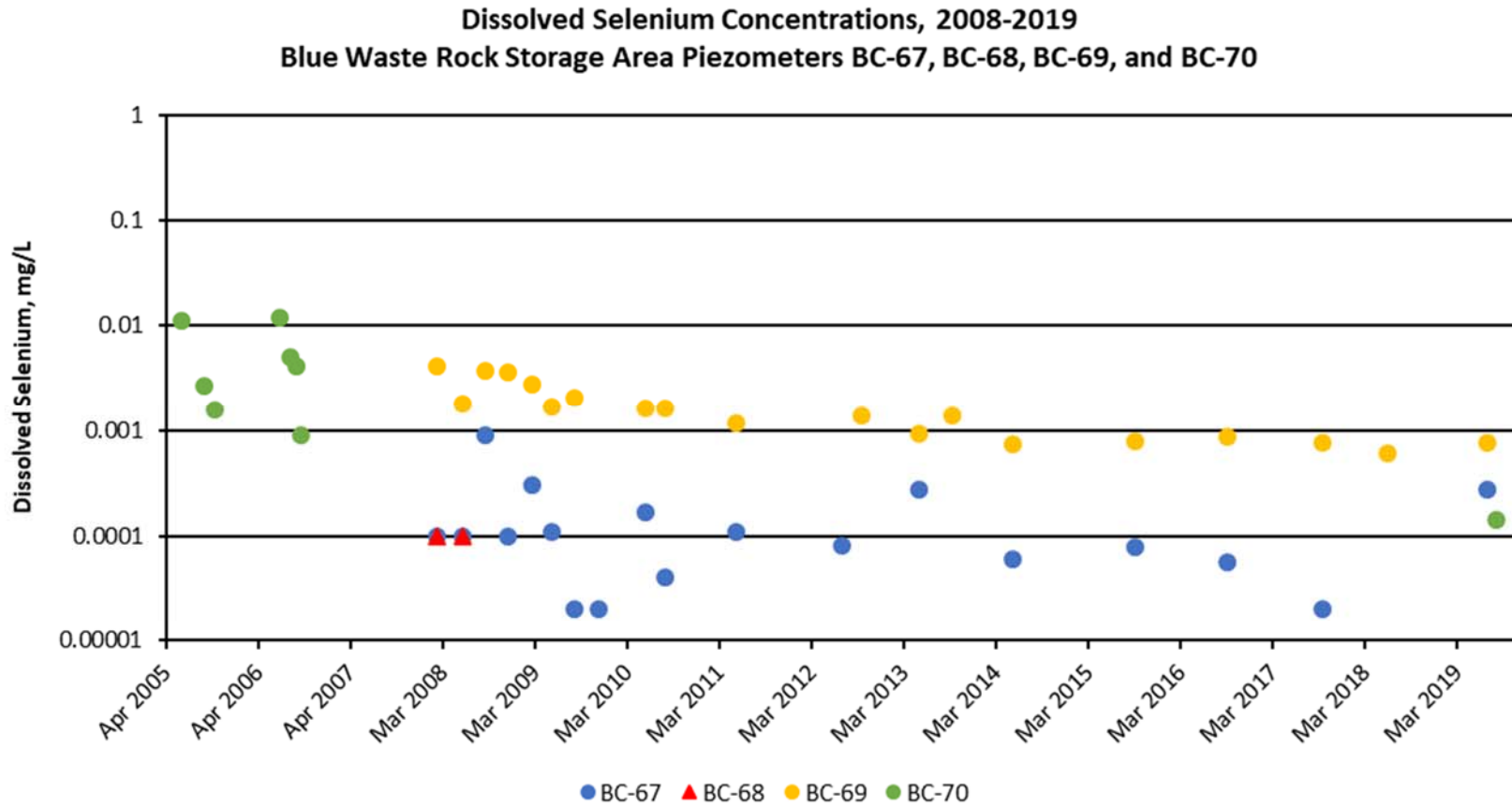


Figure C- 11: Selenium Concentrations on Blue Waste Rock Storage Area (2008-2019). Note Log Scale.

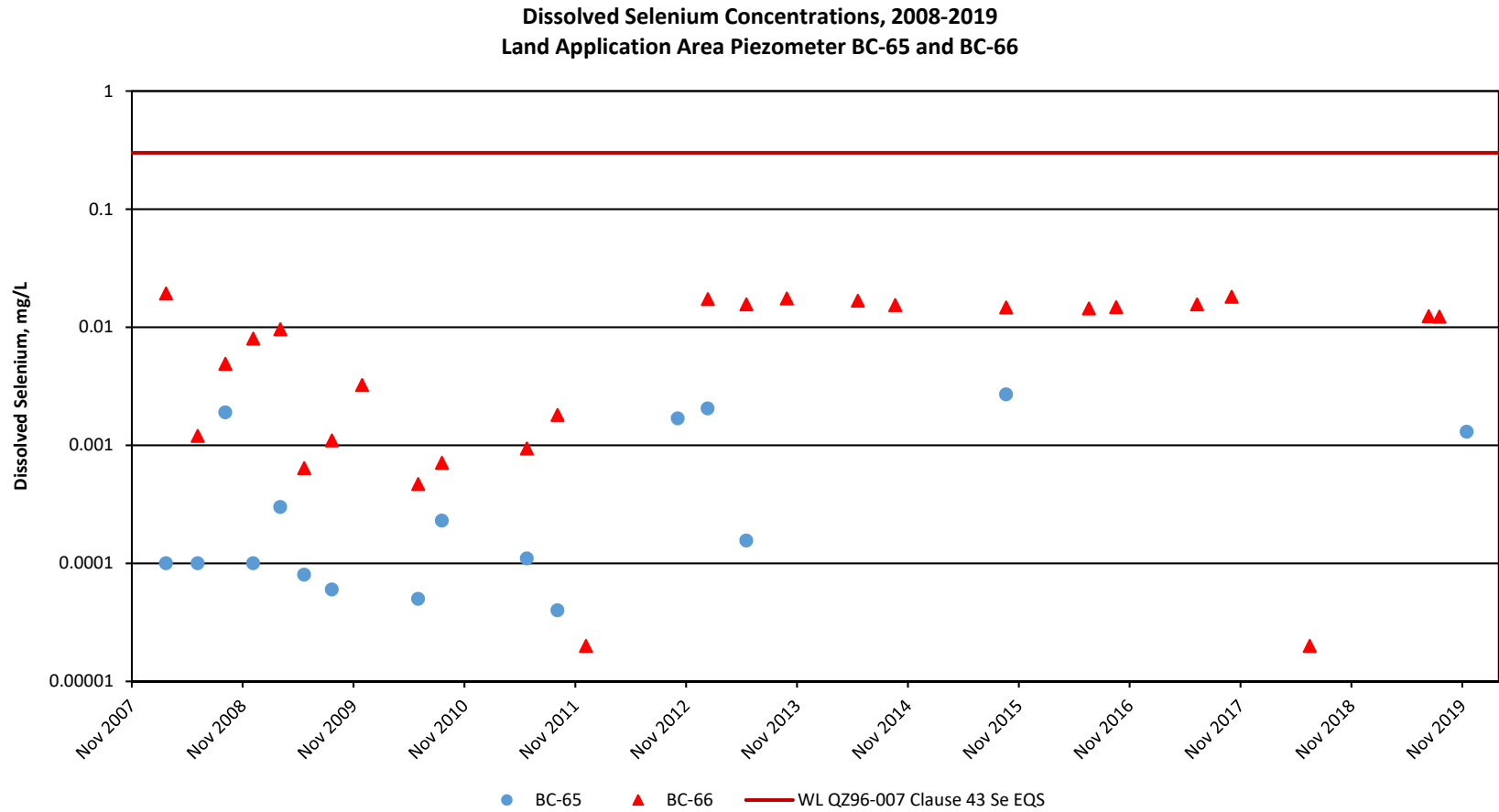


Figure C- 12: Selenium Concentrations on Land Applications Area (2008-2019). Note Log Scale.

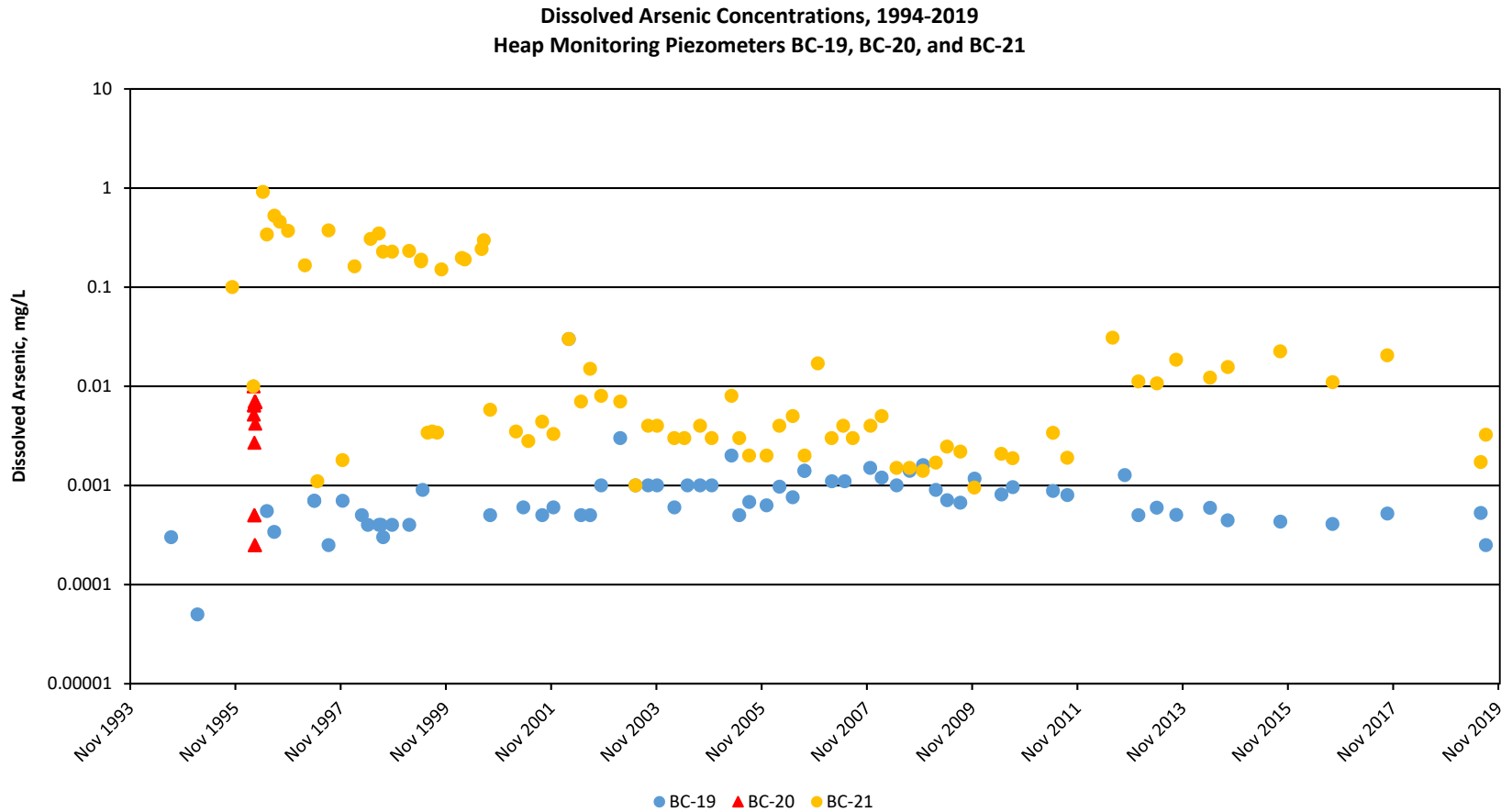


Figure C- 13: Arsenic Concentrations on Heap (1994-2019). Note Log Scale.

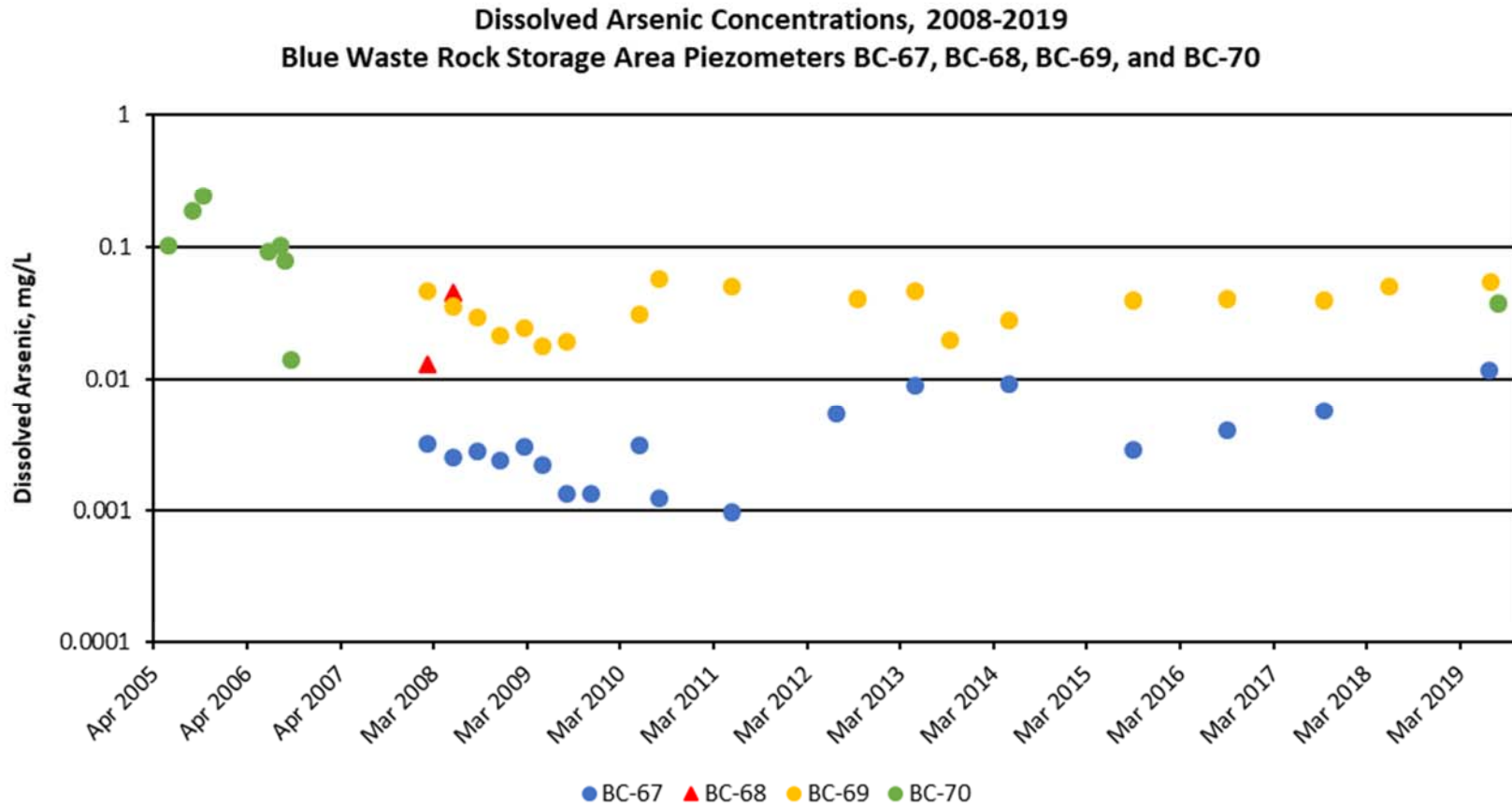


Figure C- 14: Arsenic Concentrations on Blue Waste Rock Storage Area (2008-2019). Note Log Scale.

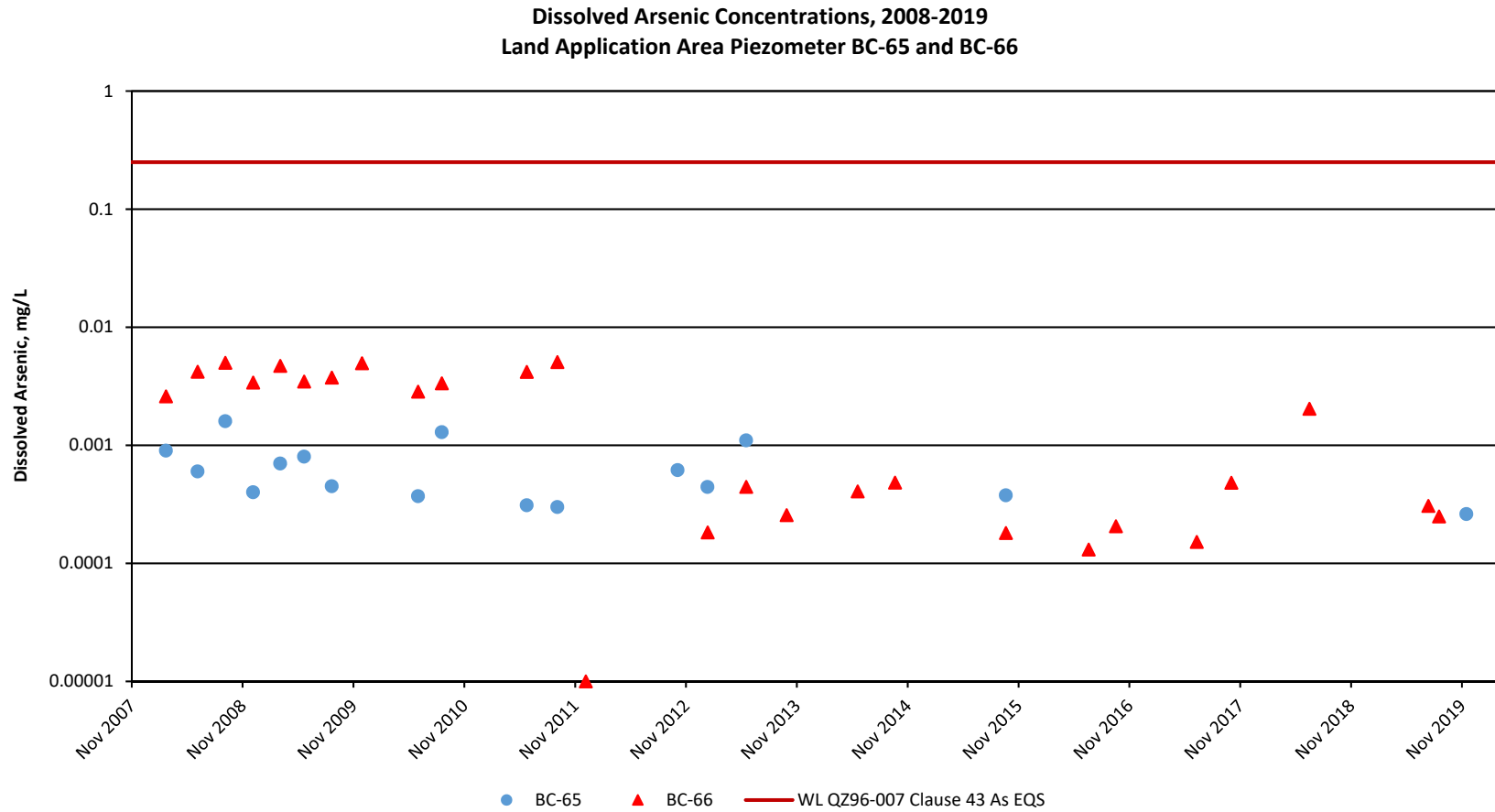


Figure C- 15: Arsenic Concentrations on Land Application Area (2008-2019). Note Log Scale.

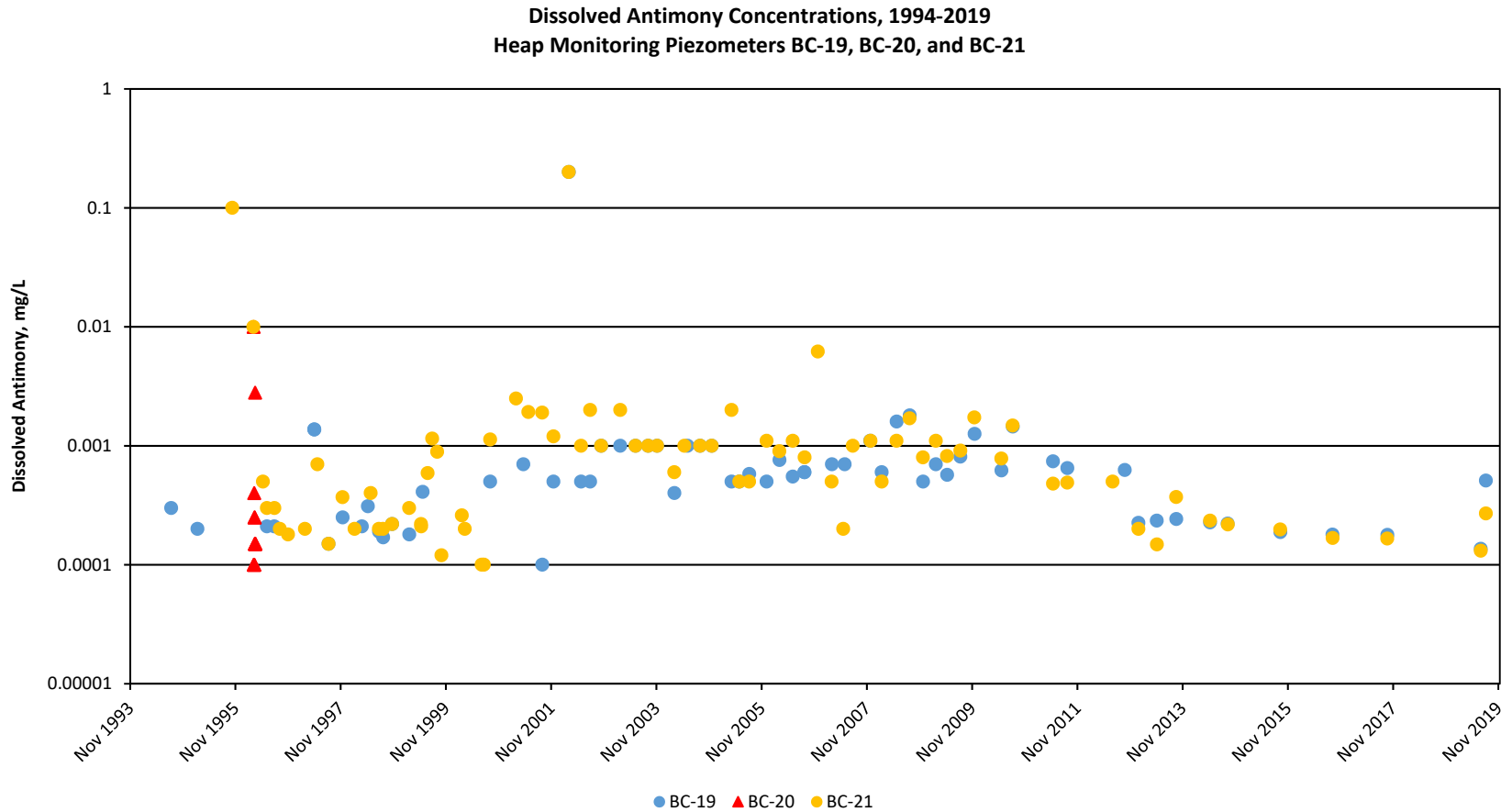


Figure C- 16: Antimony Concentrations on Heap (1994-2019). Note Log Scale.

Dissolved Antimony Concentrations, 2008-2019
Blue Waste Rock Storage Area Piezometers BC-67, BC-68, BC-69, and BC-70

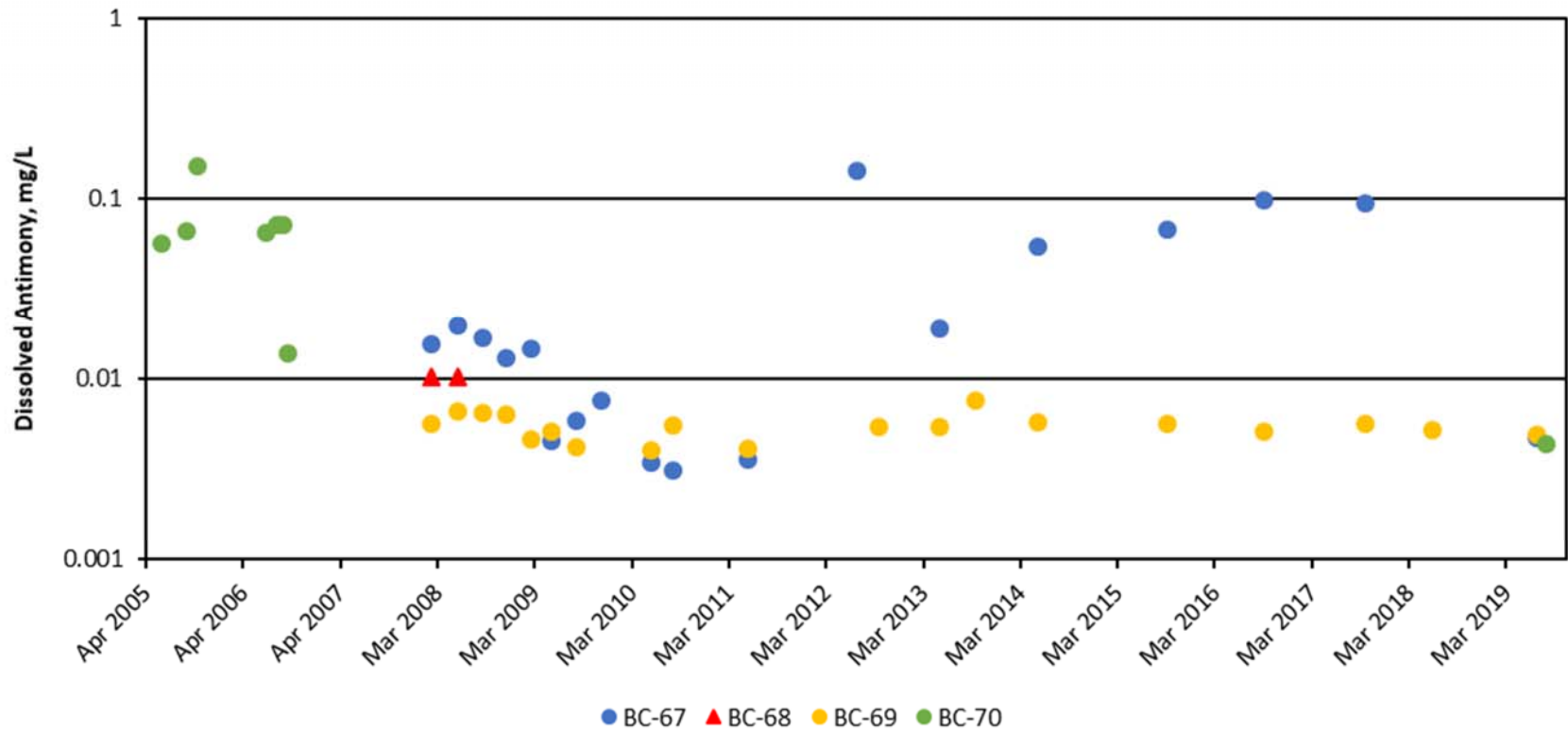


Figure C- 17: Antimony Concentrations on Blue Waste Rock Storage Area (2008-2019). Note Log Scale.

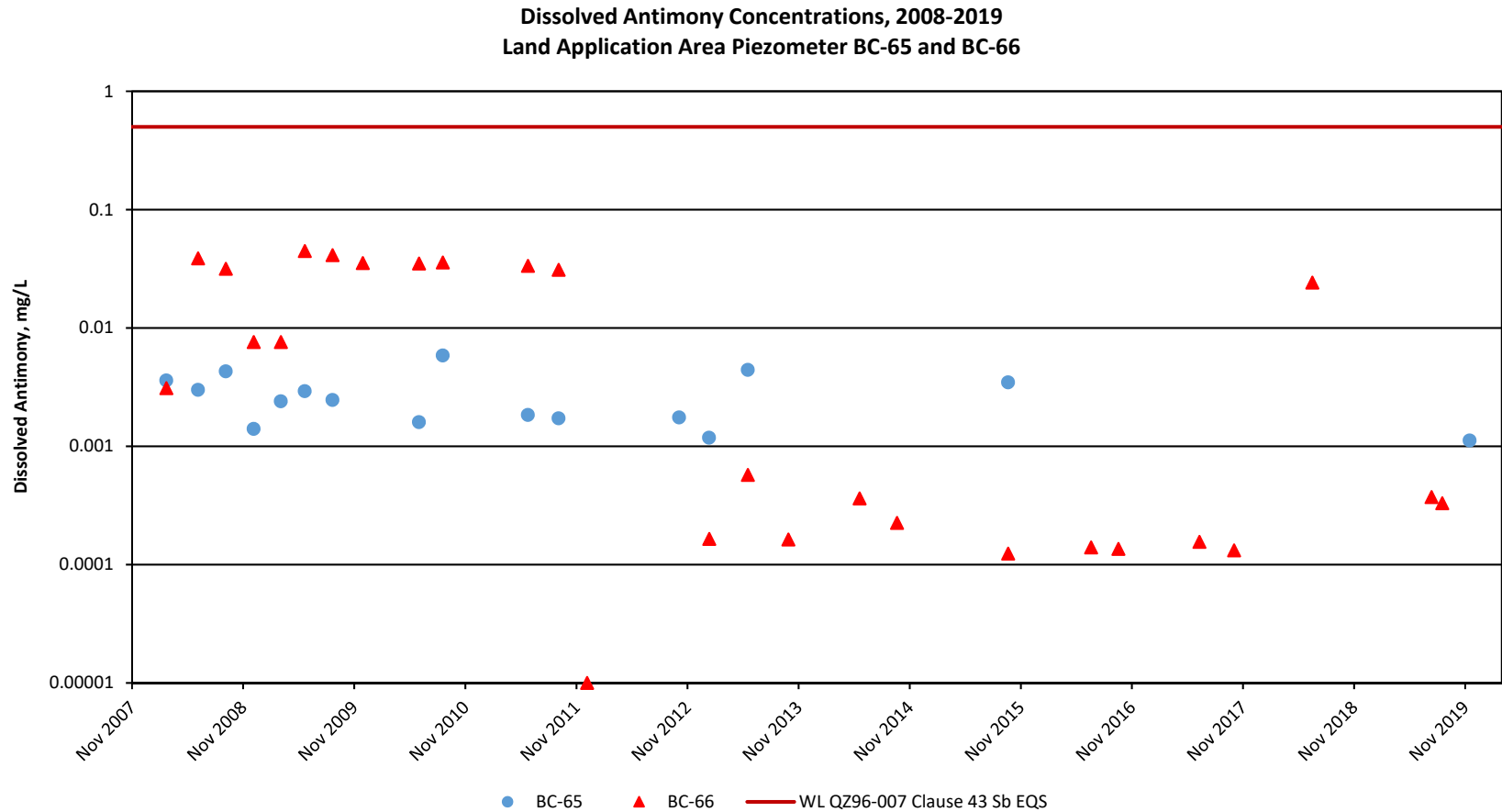


Figure C- 18: Antimony Concentration on Land Application Area (2008-2019). Note Log Scale.

APPENDIX B

2019 SEDIMENT DATA TABLES

				Laura Creek, 50m u/s from Ditch Road	Carolyn Creek, u/s from Laura Creek	Laura Creek, above confluence w/ Carolyn Creek	Lucky Creek d/s of Lucky Pit	Pacific Creek u/s from confluence w/ Lee Creek	South Klondike R. d/s from confluence w/ Lee Creek	Golden Creek above confluence w/ South Klondike R.	Lee Creek above Pacific Creek	Lee Creek at Ditch Road	Pacific Creek below heap leach pad	BC-35 Background	Golden Creek above confluence w/ Lucky Creek	Laura Creek at Ditch Road	Laura Creek in side channel of S. Klondike River
Station				BC-01	BC-02	BC-03	BC-04	BC-05	BC-06	BC-31	BC-33	BC-34	BC-35	BC-35R	BC-36	BC-37	BC-39
Sample Date				2019-08-28	2019-09-24	2019-09-24	2019-09-23	2019-09-25	2019-09-25	2019-09-25	2019-09-25	2019-09-23	2019-09-25	2019-09-25	2019-09-25	2019-08-28	2019-08-28
Total Metals by ICPMS		ISQG	PEL														
Total Aluminum (Al)	mg/kg			11300	11000	10700	9550	11700	10100	10300	11700	10000	11000	12400	9990	14300	10400
Total Antimony (Sb)	mg/kg			5.63	1.79	11.8	9.53	2.65	2.37	6.04	2.5	2.06	5.13	2.52	1.75	7.29	2.39
Total Arsenic (As)	mg/kg	5.9	17	31.5	6.52	56.9	47.9	14.5	9.56	19.8	9.41	7.72	28.8	7.68	12.1	33.4	22.5
Total Barium (Ba)	mg/kg			594	297	385	507	767	778	660	700	638	1250	1560	506	582	570
Total Beryllium (Be)	mg/kg			0.56	0.32	0.78	0.4	0.43	0.5	0.46	0.58	0.59	0.46	0.39	0.57	0.73	0.6
Total Bismuth (Bi)	mg/kg			0.16	0.11	0.19	0.15	0.12	0.11	0.16	0.11	0.17	<0.10	<0.10	0.13	0.22	0.19
Total Cadmium (Cd)	mg/kg	0.6	3.5	0.6	0.276	1.1	1.08	1.59	1.79	1.18	2.12	2.07	2.04	0.956	1.75	0.99	0.585
Total Calcium (Ca)	mg/kg			6570	5390	7190	4180	8570	7750	7020	7750	8720	8100	7640	7330	8990	4310
Total Chromium (Cr)	mg/kg	37.3	90	24.1	18.4	23.1	17.8	25.2	25.3	21.8	29.7	23.6	29.2	30.9	21.5	29.7	18.8
Total Cobalt (Co)	mg/kg			10.6	6.83	15.5	8.51	12.5	10.3	9.04	10.7	9.26	12.5	11.2	13.8	13.2	9.58
Total Copper (Cu)	mg/kg	35.7	197	21.3	13.6	20.1	17.6	30.4	40.1	27.9	46.6	43.2	25.1	27.8	35.9	32.9	25
Total Iron (Fe)	mg/kg			22300	16800	22400	20000	25100	25000	21200	25200	21100	24100	25400	30000	25000	23700
Total Lead (Pb)	mg/kg	35	91.3	10	10.8	10.4	16.9	8.25	8.52	11.1	10.3	7.54	7.31	6.63	8.89	12.2	11.6
Total Lithium (Li)	mg/kg			13.4	11.6	14.9	14.6	13.9	12.2	15.2	13.1	10.7	16.9	19.1	11.3	16.6	19.3
Total Magnesium (Mg)	mg/kg			4660	3630	4550	3580	4850	5360	4600	6040	4760	5140	4890	3780	5920	4600
Total Manganese (Mn)	mg/kg			690	266	817	367	1080	469	554	318	636	561	446	1520	634	393
Total Mercury (Hg)	mg/kg	170	486	0.145	<0.050	0.099	0.277	0.265	0.17	0.194	0.203	0.21	0.477	0.243	0.153	0.095	0.076
Total Molybdenum (Mo)	mg/kg			1.47	0.47	1.63	2.17	2.14	3.63	2.19	4.14	3.24	1.91	2.3	3.74	1.74	1.93
Total Nickel (Ni)	mg/kg			29.4	16	43.1	28.5	49.1	48.1	35.4	53.1	53	49.9	38.2	42.8	39.2	27.1
Total Phosphorus (P)	mg/kg			957	640	846	656	1040	2110	980	1790	2190	1000	1430	1690	887	1060
Total Potassium (K)	mg/kg			908	734	985	736	1010	1310	1100	1560	1490	1150	1280	1550	1070	1120
Total Selenium (Se)	mg/kg			0.93	0.67	1.37	1.14	1.95	1.98	1.39	2.37	1.94	1.86	1.13	2.32	1.65	0.91
Total Silver (Ag)	mg/kg			0.135	0.123	0.183	0.191	0.242	0.341	0.292	0.455	0.355	0.154	0.201	0.349	0.241	0.136
Total Sodium (Na)	mg/kg			159	115	102	<100	<100	<100	<100	<100	<100	<100	<100	<100	158	106
Total Strontium (Sr)	mg/kg			52.8	33.7	61.4	62.3	67.6	76.3	63.5	77.2	86.1	73.2	66.3	82.1	69.2	44.7
Total Thallium (Tl)	mg/kg			0.125	0.102	0.198	0.243	0.177	0.193	0.191	0.244	0.229	0.192	0.175	0.214	0.176	0.121
Total Tin (Sn)	mg/kg			0.42	0.32	0.44	0.36	0.33	0.35	0.32	0.43	0.33	0.36	0.37	0.31	0.51	0.37
Total Titanium (Ti)	mg/kg			529	397	442	183	347	502	260	429	294	297	211	201	494	241
Total Uranium (U)	mg/kg			1.87	0.737	1.66	1.03	1.15	2.31	1.35	2.46	2.29	1.19	1.16	2.78	2.36	1.75
Total Vanadium (V)	mg/kg			52.4	32.8	53.3	44.2	71.9	95.8	61.9	118	88.9	66	85.8	87.8	62.8	47.3
Total Zinc (Zn)	mg/kg	123	315	94.8	55.6	175	151	326	307	191	363	332	328	181	229	128	123
Total Zirconium (Zr)	mg/kg			2.68	2.22	1.52	0.88	1.4	2.01	1.33	2.42	1.76	1.77	1.55	1.44	2.81	1.71

Sediment values are compared to the CCME Interim Sediment Quality Guidelines (ISQG) and Probable Effects Level (PEL) to provide context to the data for existing conditions data purposes.

* Values highlighted in light green are elevated relative to the Interim Sediment Quality Guidelines (ISQG)

* Values in red text are elevated relative to the Probable Effects Level (PEL)

APPENDIX C

2019 LOWER LAURA CREEK STUDY

Memorandum

To: Jillian Chown, Golden Predator Mining Corp.

From: Alexco Environmental Group Inc.

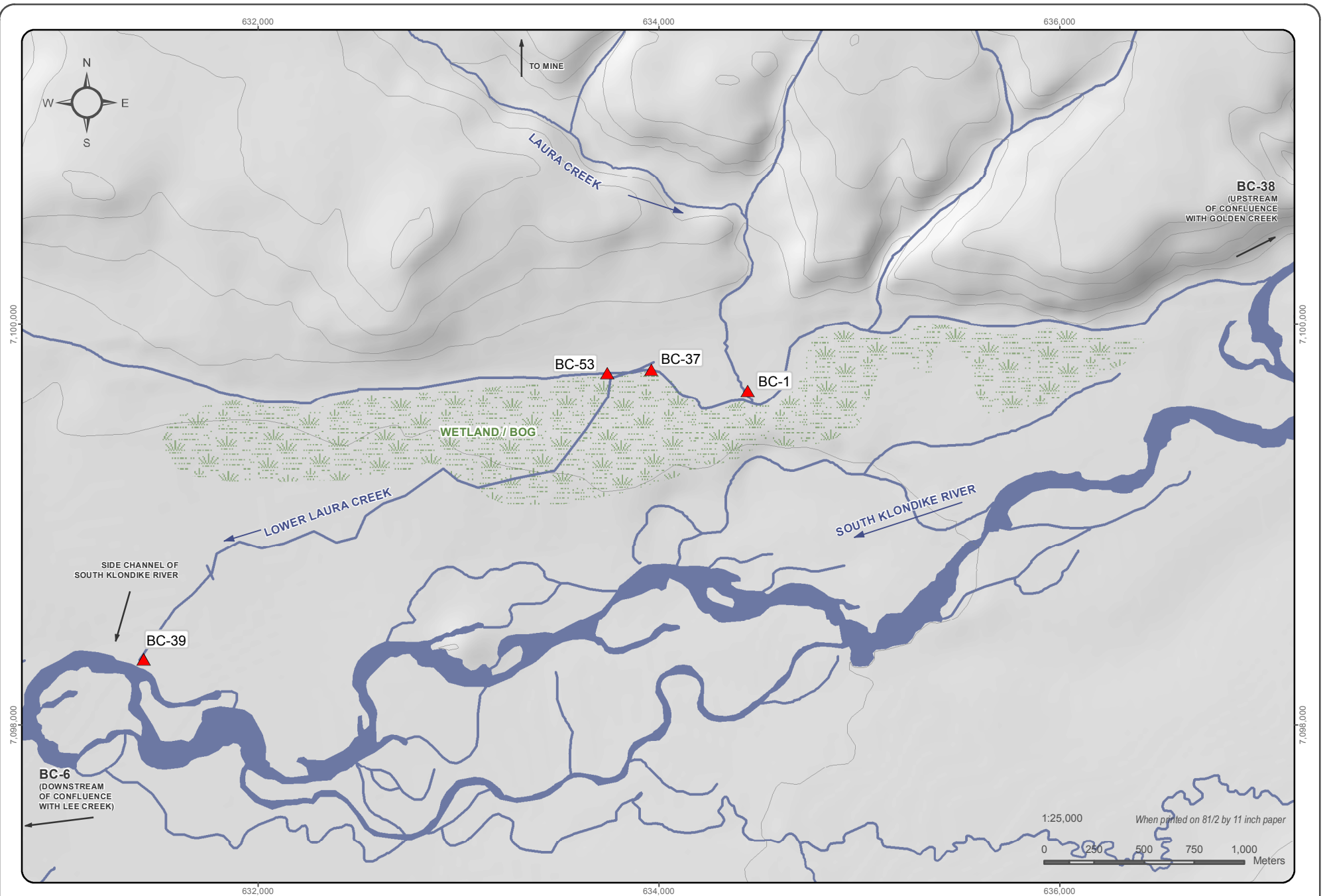
Date: 21 February 2020

Re: Lower Laura Creek 2019 Impact Study

1 INTRODUCTION

In April 2004, the Laura Creek Adaptive Management Plan (AMP) was prepared in response to Clause 70 of Water Use Licence QZ96-007 Amendment No. 6. The AMP is a component of the overall Environmental Management System for the site and provides a contingency response plan to address downstream effects to aquatic resources in lower Laura Creek resulting from the release of mine site effluents containing selenium.

In December 2004, a Lower Laura Creek Impact Study Plan was developed, to be undertaken during the period 2005 – 2007 on the lower reach of Laura Creek from BC-53 to BC-39 (Figure 1-1) an approximate distance of three kilometres. Following the initial study phase, the commitment to update the Impact Study every three years was a clause (79) added to the Water Use Licence (QZ96-007). The impact study is updated on the monitoring data as per the schedule in Schedule B of the water license. This memo provides an updated assessment with the new data collected between 2014-2019.



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83; Map Projection: UTM Zone 7N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client, as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

▲ Water Quality Stations



BREWERY CREEK MINE

FIGURE 1-1

LOWER LAURA CREEK STUDY AREA

JANUARY 2017

D:\Project\BreweryCreek\Map\1-Overview_Map\WQ_Station05-Specific\LowerLauraCreek\WQ_Levels_Ck_Insp\Body_20110125.mxd (Last edited by: mdurham; 1/25/2017 6:05 AM)

1.1 PURPOSE

The purpose of the study was to characterize the potential effects to Lower Laura Creek and the South Klondike River resulting from the release of effluents from the project. The following report summarizes data collected as part of the licensed monitoring program conducted on Laura Creek and the South Klondike River during the period 2008 – 2019. Table 1-1 presents the list of monitoring locations included in this study.

Table 1-1 Lower Laura Creek Monitoring Locations

Site ID	Site Description
BC-1	Laura Creek, 50m upstream from Ditch Road
BC-6	South Klondike River downstream from confluence with Lee Creek
BC-37	Laura Creek at Ditch Road
BC-38	South Klondike River upstream of Laura Creek
BC-39	Laura Creek inside channel of South Klondike River
BC-53	Laura Creek, 50m downstream from Ditch Road

2 WATER QUALITY ANALYSIS

Water samples have been collected at BC-39 as per Water Licence QZ96-007, Schedule B, and also at BC-53 for the analysis of pH, conductivity, hardness, alkalinity, dissolved solids, suspended solids, sulphate, ammonia, nitrate and analysis of total metals by inductively coupled plasma mass spectrometry (ICP-MS). In-situ measurements (temperature, pH, and conductivity) were also taken during sampling events. Sampling was conducted at BC-53 in 2017 and 2018, but no sample was collected in 2019, as BC-37 was collected in its stead, as these sites are located very close to each other.

Water quality data have also been collected at other stations on lower Laura Creek (BC-1 and BC-37) as well as in the South Klondike River (BC-38 and BC-6). Data collected for these stations are presented in Appendix A of the 2019 Annual Water Licence Report.

A discussion of water quality at BC-39 and BC-53 is provided below, followed by a comparison of selected parameters also measured at BC-1, BC-6, BC-37, and BC-38.

2.1 CCME GUIDELINES

The following discussion compares water quality parameters at stations on Laura Creek and the South Klondike River to the Canadian Council of Ministers of the Environment (CCME) guidelines to provide an insight into the overall water quality in lower Laura Creek. The guidelines used presented in Table 2-1. Several water quality guidelines vary depending on water hardness (e.g., cadmium, copper, lead and nickel; CCME 2012). In such cases, the guideline was calculated for each individual sample, as presented in Table 2-2 and Table 2-3. For the pH dependent aluminum guideline, the guideline of 0.1 mg/L was used, as all pH results were above 6.5.

A site-specific water quality objective (SSWQO) consistent with CCME guidelines was developed for selenium in the Laura Creek watershed. The selenium SSWQO is specified in Clause 45 of the Water Licence, where the maximum concentration of selenium should not exceed 0.0038 mg/L at station BC-39. The Laura Creek AMP (2004) indicates a SSWQO of 0.0038 mg/L at BC-53 will be a trigger under the AMP.

In 2003, the CCME guideline for mercury was revised from 0.0001 mg/L to 0.000026 mg/L. Whether or not mercury meet the CCME guideline at stations BC-39 and BC-53 is not always known as the laboratory Method Detection Limit (MDL) for mercury ranges from 0.01 – 0.00001 mg/L for the samples collected from 2008 – 2013, which can be greater than the guideline. However, results for total mercury at BC-39 were either below the method detection limit or CCME on all occasions, while at BC-53 they are known to exceed CCME on two occasions.

In February 2014, new guidelines for short-term and long-term exposure to cadmium were published by the CCME to replace the interim guideline. The long-term exposure guideline is the most conservative and was used in the assessment below.

Table 2-1 CCME Guidelines for Protection of Aquatic Life

Parameter	Concentration	Units	Notes
Aluminum	0.1	mg/L	if pH >= 6.5
	0.005	mg/L	if pH < 6.5
Arsenic	0.005	mg/L	
Cadmium (Long Term Exposure)	$(10^{0.83[\log(\text{hardness})]-2.46})/1000$	mg/L	
Chromium	0.001	mg/L	
Copper	$(e^{0.8545[\ln(\text{hardness})]-1.465} * 0.2)/1000$	mg/L	
Iron	0.3	mg/L	
Lead	$(e^{1.273[\ln(\text{hardness})]-4.705})/1000$	mg/L	
Mercury	0.000026	mg/L	
Molybdenum	0.073	mg/L	
Nickel	$(e^{0.76[\ln(\text{hardness})]+1.06})/1000$	mg/L	
Nitrate (N-NO ₃)	3	mg/L	
pH	6.5-9.0	pH units	
Selenium	0.001	mg/L	
Silver	0.00025	mg/L	
Thallium	0.0008	mg/L	
Zinc (dissolved)	$e^{(\ln(\text{hardness})-0.851(\text{pH})+0.398(\text{DOC})+4.625)}$	mg/L	pH, hardness and DOC dependent

Table 2-2 Water Quality Data for BC-53; Laura Creek 300 m below BC-37

Paramter	Unit	Guideline	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53		
			Jan	Apr	May	Jun	Jul	Aug	Sep	Dec	Jun	Sep	Dec	Jun	Sep	Jun	Sep	Jun	Sep	Jun
			2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2009	2009	2009	2010	2010	2011	2011
Field Parameters																				
Conductivity (field)	µS/cm			755	271					344			1185	452	290	429			369	
pH (field)		6.5-9		7.85	7.69					7.42			7.4	7.76	8.09	7.92			8.12	
Temperature (field)	C			0.2	0					3			2	4	0.1	6.3			4.5	
Other Parameters																				
pH (lab)		6.5-9	7.38	8.05	7.9	8.1	7.72	7.98	8.08	8.07	8.3	8.1	8.1	8.1	8.23	7.99	8.16	8.15		
Conductivity (lab)	µS/cm		700	1100	349	480	304	310	386	584	430	441	586	454	435	442	460	383		
Hardness (from total)	mg/L		406	598	184	254	322	164	210	304	214	225	302	226	220	213	221	199		
Alkalinity, Total	mg/L		216	283	79	134	84	97	114	168	110	130	170	130	130	110	130	107		
Alkalinity, Hydroxide OH	mg/L		<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50		
Alaklinity, Carbonate CO3	mg/L		<6	<6	<6	<6	<6	<6	<6	<6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50		
Alkalinity, Bicarbonate HCO3	mg/L		263	346	100	160	100	100	140	200	140	150	200	160	150	140	150	131		
Total Dissolved Solids	mg/L		562	946	270	352	234	274	312	502	280	270	350	300	270	300	320	254		
Total Suspended Solids	mg/L		<2	<2	<2	18	231	126	38	<2	64	9	1	110	24	65	7	67.9		
Chloride	mg/L	120	0.78	1.93	1.19	0.59	0.32	0.37	0.75	0.51	1.2	<0.5	<0.5	0.8	<0.5	1	1	1		
Sulphate, Dissolved	mg/L		210	428	78.5	124	68.3	63.4	97	158	100	94	120	110	110	110	115	86.9		
Ammonia Total	mg/L	0.197	0.01	0.013	0.012	0.008	0.032	0.021	0.024	0.08	<0.005	<0.005	0.007			0.016	0.02	0.01		
Nitrate, as N	mg/L	3	0.04	<0.02	4.44	0.5	0.85	0.43	1.03	0.1	0.19	0.24	0.23	0.16	0.14	0.22	0.14	0.356		
Cyanide, Total	mg/L		0.001	0.002	0.017	0.001	0.76	0.001	0.002	0.001	0.0011	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005			
Cyanide, Weak Acid Dissociable	mg/L	0.005	0.002	<0.002	0.004	0.004	0.122	0.002	<0.002	<0.002	0.0007	<0.0005	<0.0005	0.0007	0.001	<0.0005	<0.0005	0.00106		
Total Metals, CCME Regulated																				
Aluminum (Al), Total	mg/L	*	0.013	0.013	10.6	0.942	8.26	2.86	0.616	0.158	0.459	0.0844	0.0207	0.556	0.0347	0.344	0.0682	0.79		
Arsenic (As), Total	mg/L	0.005	0.0045	0.0081	0.0387	0.0053	0.0178	0.0076	0.0039	0.004	0.0066	0.00406	0.00438	0.00602	0.00379	0.00669	0.00443	0.00622		
Cadmium (Cd), Total	mg/L	*	0.00014	0.00024	0.00077	0.00007	0.00046	0.00016	0.00007	0.00004	0.000142	0.000039	0.000026	0.000122	0.000016	0.000144	0.000035	0.000169		
Chromium (Cr), Total	mg/L	0.001	0.0008	0.0012	0.0222	0.0021	0.0159	0.0056	0.0021	<0.0005	0.0012	0.0002	0.0001	0.0012	0.0002	0.0008	0.0003	0.00138		
Copper (Cu), Total	mg/L	*	0.001	0.002	0.025	0.007	0.019	0.007	0.002	<0.001	0.00334	0.00157	0.00062	0.00353	0.00129	0.00344	0.00139	0.00513		
Iron (Fe), Total	mg/L	0.3	<0.1	<0.1	16.8	1.14	17.5	3.32	1.06	0.16	1.16	0.244	0.058	1.15	0.106	0.854	0.211	1.65		
Lead (Pb), Total	mg/L	*	0.0002	0.0001	0.0083	0.0007	0.0121	0.0016	0.0006	0.0001	0.00128	0.000167	0.00004	0.000949	0.000027	0.000993	0.000102	0.00147		
Mercury (Hg), Total		0.000026	<0.0001	<0.0001	0.001	<0.0001	0.0001	<0.0001	<0.00001	<0.0001	0.00002		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			
Molybdenum (Mo), Total	mg/L	0.073	0.004	0.004	0.003	0.004	0.003	0.002	0.00234	0.003	0.00256	0.0027	0.00376	0.00237	0.00262	0.0022	0.00222	0.00155		
Nickel (Ni), Total	mg/L	*	0.0011	0.002	0.0281	0.0025	0.0196	0.0088	0.002	0.0019	0.0049	0.00216	0.00128	0.00388	0.0022	0.00357	0.00245	0.0048		
Selenium (Se), Total	mg/L	0.0038	0.0028	0.0044	0.004	0.0012	0.0031	0.0017	0.0012	0.002	0.00165	0.00159	0.00217	0.00197	0.00152	0.0018	0.00174	0.00229		
Silver (Ag), Total	mg/L	0.00025	<0.0001	<0.00001	0.00019	<0.00001	0.00017	0.00006	0.00002	<0.00001	<0.000005	<0.000005	<0.000005	0.000008	<0.000005	0.000012	<0.000005	0.0000122		
Thallium (Tl), Total	mg/L	0.0008					0.0001	<0.00005	0.00001		0.00001	0.000004	0.000003	0.000009	0.000003	0.000007	0.000003	0.0000083		
Zinc (Zn), Total	mg/L	0.03	0.024	0.02	0.108	0.011	0.085	0.022	0.008	0.007	0.0155	0.0027	0.0014	0.0101	0.0007	0.0094	0.0021	0.0109		
Total Metals, Anions																				
Calcium (Ca), Total	mg/L		99.3	140	45.5	61.5	76.1	40.5	52.6	75.5	54	56.4	74.4	54.1	53.8	52.6	53.9	50.6		
Manganese (Mn), Total	mg/L		0.005	0.029	0.826	0.047	0.441	0.092	0.0541	0.027	0.137	0.0252	0.0122	0.0755	0.0108	0.118	0.0397	0.104		
Magnesium (Mg), Total	mg/L		38.5	60.2	17.2	24.3	32.1	15.3	19.1	28.1	19.3	20.5	28.2	22	20.8	19.9	21.1	17.7		
Sodium (Na), Total	mg/L		8	11.9	12.3	5	4240	3.1	4.8	4.7	3.57	3.61	4.48	3.56	3.38	3.32	3.28	3.07		
Potassium (K), Total	mg/L		2.5	4.8	2.8	1.4	5.5	1.2	1.28	1.3	1.32	1.17	1.36	1.26	1.15	1.32	1.16	1.02		

CCME Guideline for Aquatic life (first column): Results or detection limits above the guideline are flagged in red. For Selenium, results above the SSWQO have been flagged.

The * indicates the guideline is calculated based on pH (Al) or hardness (Cd, Cu, Pb, Ni)

Table 2-2 Water Quality Data for BC-53; Laura Creek 300 m below BC-37

Paramter	Unit	Guideline	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53	BC-53
			Jul	Oct	May	Oct	Sep	Jun	Sep	Sep	Jun
			2013	2013	2014	2014	2015	2016	2016	2017	2018
Field Parameters											
Conductivity (field)	µS/cm									377	303
pH (field)		6.5-9	8.82	8.36	8.08	7.91	7.97	8.02	8.08	9.93	8.8
Temperature (field)	C		8.18	0.1	0.6	-0.2	1.6	9.2	0	3.45	3.96
Other Parameters											
pH (lab)		6.5-9	8.07	7.95	8.02	8.12	8.07	8.18	8.11	8.19	8.1
Conductivity (lab)	µS/cm		390	382	427	445	393	342	514	542	442
Hardness (from total)	mg/L		181	197	216	238	197	178	256	287	234
Alkalinity, Total	mg/L		108	99.7	113	118	102	98.9	133	140	113
Alkalinity, Hydroxide OH	mg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Alaklinity, Carbonate CO3	mg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Alkalinity, Bicarbonate HCO3	mg/L		131	122	138	144	125	121	162	170	137
Total Dissolved Solids	mg/L		236	276	276	314	276	212	354	338	
Total Suspended Solids	mg/L		37.9	29.6	43.3	2.2	15	85.7	33.5	318	72.8
Chloride	mg/L	120	<0.50	1	0.79	1.1	0.76	0.75	1.1	0.98	0.69
Sulphate, Dissolved	mg/L		99.7	100	103	110	91	76.9	141	150	122
Ammonia Total	mg/L	0.197	0.023	0.027	0.012	0.012	0.017	0.016	0.037	0.052	0.041
Nitrate, as N	mg/L	3	0.116	<1.0	0.263	0.164	0.326	0.091	0.268	0.207	0.207
Cyanide, Total	mg/L			0.00107	0.00055	<0.00050	<0.00050	0.00062	0.0006		
Cyanide, Weak Acid Dissociable	mg/L	0.005	0.00066	0.00095	0.00059	<0.00050	<0.00050	0.00063	0.00051		
Total Metals, CCME Regulated											
Aluminum (Al), Total	mg/L	*	0.25	0.103	0.204	0.0249	0.215	1.08	0.367	4.27	1.76
Arsenic (As), Total	mg/L	0.005	0.00345	0.00316	0.00526	0.00342	0.0034	0.00482	0.00684	0.0103	0.00593
Cadmium (Cd), Total	mg/L	*	0.000054	0.000047	0.000072	0.000008	0.000044	0.000086	0.000064	0.000213	0.0000901
Chromium (Cr), Total	mg/L	0.001	0.00053	0.00037	0.00034	0.00023	0.00068	0.0021	0.00078	0.00702	0.00287
Copper (Cu), Total	mg/L	*	0.00215	0.00206	0.00248	0.00123	0.00227	0.00421	0.00237	0.0112	0.00562
Iron (Fe), Total	mg/L	0.3	0.504	0.283	0.556	0.0937	0.435	2.18	0.884	6.74	2.68
Lead (Pb), Total	mg/L	*	0.000438	0.000154	0.00048	0.000009	0.000233	0.00121	0.000477	0.00319	0.00139
Mercury (Hg), Total		0.000026		<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Molybdenum (Mo), Total	mg/L	0.073	0.00179	0.0018	0.00269	0.00269	0.00229	0.00161	0.00284	0.00255	0.00272
Nickel (Ni), Total	mg/L	*	0.00209	0.00483	0.00232	0.00214	0.00291	0.00385	0.00451	0.0136	0.00646
Selenium (Se), Total	mg/L	0.0038	0.00136	0.00132	0.00159	0.0017	0.00176	0.00116	0.00206	0.00184	0.00157
Silver (Ag), Total	mg/L	0.00025	<0.0000050	<0.0000050	0.000005	<0.0000050	0.000007	0.000018	<0.000010	0.000067	0.000034
Thallium (Tl), Total	mg/L	0.0008	0.000003	0.000004	0.000002	0.000002	0.000005	0.000013	0.000006	0.0000341	0.0000153
Zinc (Zn), Total	mg/L	0.03	0.00372	0.00458	0.00405	0.0006	0.0046	0.0096	0.0068	0.0307	0.011
Total Metals, Anions											
Calcium (Ca), Total	mg/L		44.8	47	54	58.1	49	47.2	64.7	67.4	56.6
Manganese (Mn), Total	mg/L		0.0501	0.0509	0.0837	0.0308	0.0452	0.086	0.153	0.224	0.107
Magnesium (Mg), Total	mg/L		16.7	19.3	19.6	22.5	18.2	14.5	23	28.9	22.4
Sodium (Na), Total	mg/L		2.96	3.52	3.49	3.86	3.58	2.56	3.55	4.4	3.53
Potassium (K), Total	mg/L		0.928	0.998	1.26	1.2	1.09	0.76	1.14	1.57	1.27

CCME Guideline for Aquatic life (first column): Results or detection limits above the guideline are flagged in red. For Selenium, results above the SSWQO have been flagged.

The * indicates the guideline is calculated based on pH (Al) or hardness (Cd, Cu, Pb, Ni)

Table 2-3 Water Quality Data for BC-39; Laura Creek in side channel of South Klondike River

Sation			BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39
			May	Jun	Jul	Aug	Jun	Jun	Jan	Jul	Oct	May	Oct	Sep	Sep	Aug	Sep
		Guideline	2008	2008	2008	2008	2009	2011	2013	2013	2013	2014	2014	2015	2016	2019	2019
Field Paramters																	
Conductivity (field)	µS/cm						1059									494	
pH (field)	pH units	6.5-9					7.27		7.73	7.83	8.23	7.6	7.01	7.48	7.13	7.1	
Temperature (field)	C						6		0.48	7.2	2	3.2	2.4	4.5	3.4	4.74	
Other Parameters																	
pH (lab)	pH units	6.5-9	7.86	8	7.73	7.98	8.3	7.97	7.9	7.83	7.99	7.88	7.7	7.94	7.68		8.13
Conductivity (lab)	µS/cm		262	477	299	299	400	415	342	256	283	294	302	273	289	616	541
Hardness (from total)	mg/L		129	253	296	155	196	200	169	109	141	144	158	138	138	315	269
Alkalinity, Total	mg/L		73	133	82	94	110	110	97.5	74.2	83	81.9	87.9	79.7	90.4	156	135
Alkalinity, Hydroxide OH	mg/L		<5	<5	<5	<5	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Alaklinity, Carbonate CO3	mg/L		<6	<6	<6	<6	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Alkalinity, Bicarbonate HCO3	mg/L		90	160	100	100	130	130	119	90.6	101	100	107	97.3	110	190	164
Total Dissolved Solids	mg/L		204	354	226	272	270	280	186	148	172	192	146	156	186		364
Total Suspended Solids	mg/L		<2	8	8	7	20	2	<1.0	7.7	1.5	1.7	1.1	<1.0	3.4	11	2.5
Chloride	mg/L	120	0.46	0.56	0.31	0.28	1.2	0.8	0.64	<0.50	0.53	<0.50		0.67	0.61	0.51	0.78
Sulphate, Dissolved	mg/L		58.7	124	67.1	61.2	97	98	75.9	50.7	61.4	62.9	63.2	54.3	64		140
Ammonia Total	mg/L	0.197	0.025	0.017	0.013	0.017	<0.005	0.017	0.013	0.035	0.011	0.0067	0.0096	0.0099	0.0067	0.015	0.066
Nitrate, as N	mg/L	3	0.52	0.44	0.8	0.41	0.15	0.05	0.242	0.043	<1.0	0.104	0.132	0.0643	0.092	0.0934	0.172
Cyanide, Total	mg/L		0.002	0.002	0.003	0.002	0.0011	<0.0005			<0.00050	<0.00050		<0.00050	<0.00050	<0.0050	<0.00050
Cyanide, Weak Acid Dissociable	mg/L	0.005	0.002	0.004	0.002	0.002	0.0007	<0.0005	0.00071	<0.00050	0.00076	<0.00050		<0.00050	0.0006		<0.00050
Total Metals, CCME Regulated																	
Aluminum (Al), Total	mg/L	*	0.336	0.364	0.749	0.521	0.0897	0.0339	0.00472	0.0116	0.0058	0.00284	0.00195	0.00296	0.00194	0.00775	0.0121
Arsenic (As), Total	mg/L	0.005	0.0033	0.0043	0.0038	0.0035	0.00357	0.00241	0.00051	0.000387	0.000623	0.000347	0.000535	0.000335	0.000314	0.00304	0.00246
Cadmium (Cd), Total	mg/L	*	0.00008	0.00004	0.00004	0.00004	0.000037	0.000054	0.000028	0.000031	0.000025	0.000031	0.000007	0.000031	0.000032	0.0000097	0.0000216
Chromium (Cr), Total	mg/L	0.001	0.0013	0.001	0.002	0.0017	0.0003	0.0002	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Copper (Cu), Total	mg/L	*	0.004	0.002	0.004	0.003	0.00118	0.00113	0.000328	0.000805	0.000526	0.000558	0.000357	0.00057	0.000499	0.000535	0.000853
Iron (Fe), Total	mg/L	0.3	0.3	0.41	2.01	0.61	0.221	0.065	0.0126	0.0244	0.023	0.0092	0.0063	0.0053	0.0024	0.0216	0.0704
Lead (Pb), Total	mg/L	*	0.0007	0.0003	0.0008	0.0002	0.000165	0.000062	0.000006	0.000047	0.00001	0.00001	<0.000050	0.000014	<0.000050	<0.000050	0.0000125
Mercury (Hg), Total	mg/l	0.000026	<0.00001	<0.00001	<0.00001	<0.0001	0.00001	<0.00001	<0.000010		<0.000010	<0.000020	<0.000020	<0.000020	0.0000022	<0.000020	0.0000025
Molybdenum (Mo), Total	mg/L	0.073	0.002	0.003	0.002	0.002	0.00234	0.00177	0.000594	0.000573	0.000519	0.000679	0.00069	0.000678	0.000616	0.00328	0.0028
Nickel (Ni), Total	mg/L	*	0.003	0.0009	0.0032	0.0033	0.00157	0.00132	0.00102	0.000459	0.000695	0.000579	0.000416	0.000438	0.000448	0.00144	0.00173
Selenium (Se), Total	mg/L	0.0038	0.0013	0.0013	0.0015	0.0014	0.00126	0.00108	0.000857	0.000533	0.000584	0.000635	0.000642	0.000568	0.000591	0.00147	0.0014
Silver (Ag), Total	mg/L	0.00025	0.00002	<0.00001	0.00004	0.00002	<0.000005	<0.000005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Thallium (Tl), Total	mg/L	0.0008			<0.00005	<0.00005	0.000003	<0.000002	<0.000020	<0.000020	0.000002	<0.000020	<0.000020	<0.000020	<0.000020	-	-
Zinc (Zn), Total	mg/L	0.03	0.02	0.007	0.008	0.007	0.0016	0.0012	0.00176	0.00137	0.00173	0.0021	0.00055	0.0017	0.00167	0.00032	0.00068
Total Metals, Anions																	
Calcium (Ca), Total	mg/L		32.3	61.9	73.5	38.4	49.9	50.4	46.1	29.9	38.1	39	42.6	37.6	38.2	80.5	63.9
Manganese (Mn), Total	mg/L		0.01	0.015	0.038	0.016	0.0134	0.00475	0.00641	0.00237	0.00676	0.000473	0.000517	0.000873	0.000878	0.00582	0.0043
Magnesium (Mg), Total	mg/L		11.7	24	27.5	14.3	17.4	17.9	13	8.33	11.1	11.2	12.6	10.6	10.4	29.4	25
Sodium (Na), Total	mg/L		2.9	4.8	8.9	2.9	3.15	2.96	2.27	1.96	2.07	2.36	2.65	2.25	2.09	4.5	3.83
Potassium (K), Total	mg/L		1.2	1.4	2.2	0.9	1.24	1.31	0.497	0.589	0.483	0.596	0.707	0.623	0.558	1.52	1.33

CCME Guideline for Aquatic life (first column): Results or detection limits above the CCME guideline are flagged in red. For Selenium, results above the SSWQO have been flagged. The * indicates the guideline is calculated based on pH (Al) or hardness (Cd, Cu, Pb, Ni)

3 LOWER LAURA CREEK WATER QUALITY

3.1 SELENIUM

The selenium SSWQO was exceeded at BC-53 during two sampling events, April and May of 2008 (0.0044 mg/L and 0.004 mg/L respectively), but has been well below the SSWQO in all data collected since 2008 (Figure 3-1). Of the total samples collected between 2008 and 2019, the selenium concentrations ranged from 0.0012 and 0.0044 mg/L, with a median concentration of 0.0018 mg/L.

Selenium concentrations at BC-39 were consistently well below the SSWQO, with concentrations ranging from 0.00052 to 0.0016 mg/L. The median concentration of selenium during this period was 0.00086 mg/L.

At stations on Laura Creek above the lower Laura Creek Study area (BC-1 and BC-37), selenium was below the SSWQO of 0.0038 mg/L during every sampling event from 2008 – 2019, with the exception of one monitoring event at BC-37, in April 2008, when the SSWQO was exceeded (0.005 mg/L). The median concentrations of selenium at BC-1 and BC-37 were 0.0018 mg/L and 0.0016 mg/L respectively.

The concentration of total selenium in the South Klondike River upstream of Laura Creek (BC-38) and South Klondike River below Laura Creek (BC-6) were all below the SSWQO (0.0038 mg/L). Total selenium in the South Klondike River upstream of Laura Creek (BC-38) was below the CCME guideline of 0.001 mg/L for all but one sample (0.00116 mg/L), observed in February 2013. In the South Klondike River below Laura Creek (BC-6), twenty-two samples out of forty-six (~48%) were above the CCME guideline. At BC-6, the dataset showed a median selenium concentration of 0.00091mg/L, which was marginally below the CCME guideline.

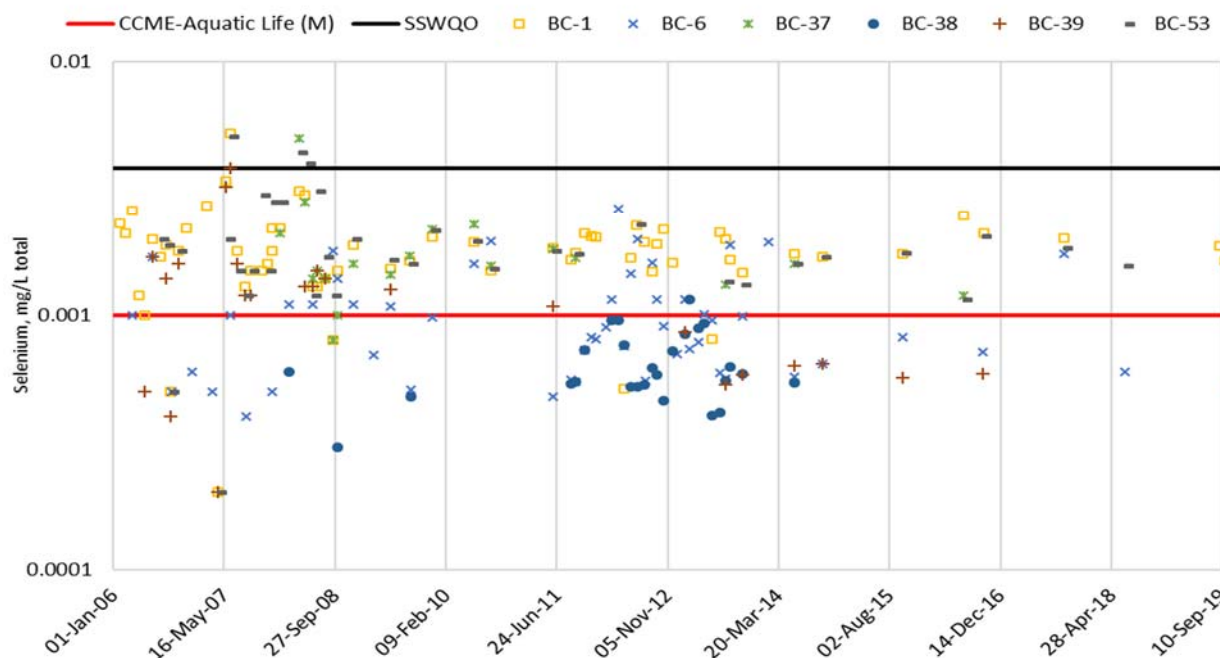


Figure 3-1: Total Selenium Concentration, lower Laura Creek, 2008-2019 (note log scale)

3.2 ALUMINUM

Figure 3-2 shows the total aluminum results at the lower Laura Creek monitoring sites. Total aluminum exceeded the CCME guideline (0.1 mg/L) seventeen of twenty-four sampling events at BC-53 (~71% of samples). The median concentration of aluminum was 0.30 mg/L. A maximum concentration of 10.6 mg/L was observed on May 24th, 2008. This sample likely impacted by high-energy erosional conditions during freshet. Samples collected at BC-39 for May 13, 2008 (during the same sampling event), show an aluminum concentration of 0.336 mg/L.

Total aluminum exceeded the CCME guideline in four of fifteen samples at BC-39 (~27%). A maximum concentration of 0.749 mg/L was observed in July 2008. There have been no exceedances of the aluminum guideline at BC-39 since 2008. The median concentration of aluminum at BC-39 after 2008 is 0.0058 mg/L.

At stations on Laura Creek above the lower Laura Creek Study area (BC-1 and BC-37), the CCME aluminum guideline was regularly exceeded (>65% of the time at both BC-1 and BC-37). The median concentration of aluminum at BC-1 and BC-37 were 0.28 mg/L and 0.17 mg/L, respectively.

Aluminum concentrations in the South Klondike River (BC-38 and BC-6) exceeded the CCME guidelines on three occasions upstream and two occasions downstream of the Brewery Creek property. All the exceedances occurred on April and May of 2012 and 2013 and were therefore likely caused by natural sediment loading associated with spring freshet.

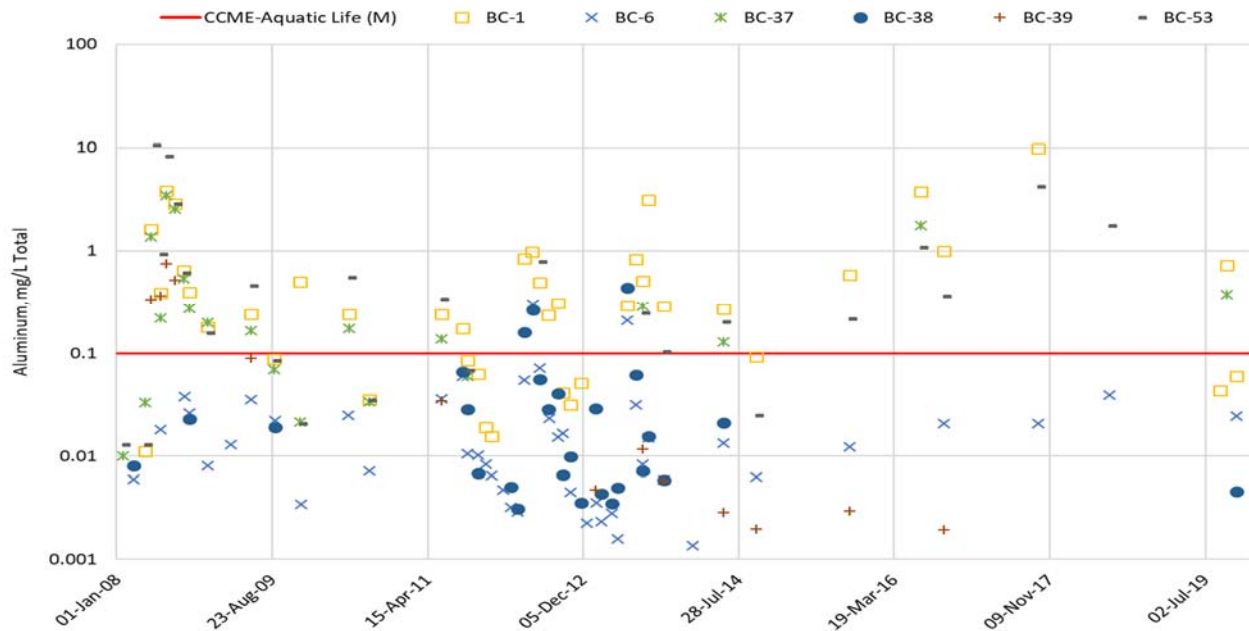


Figure 3-2: Total Aluminum Concentration, lower Laura Creek 2008-2019 (note log scale)

3.3 CADMIUM

The cadmium results for all station are shown on Figure 3-2. The median CCME long-term guidelines for BC-53, for BC-37 and for BC-06 is also plotted for reference. The cadmium CCME guideline determined on a sample by sample was exceeded twice at BC-53, out of twenty-four samples (~8%), both times in 2008. The maximum cadmium concentration observed at BC-53 was 0.00077 mg/L, in May 2008 and median concentration at BC-53 is 0.000071 mg/L. There have been no exceedances of the cadmium guideline since 2008.

All cadmium results at BC-39 were well below the CCME cadmium guideline. The median cadmium concentration at BC-39 was 0.000032 mg/L.

Total cadmium concentrations exceeded the guideline at station BC-1 on three occasions (~7%), twice in 2008 and once in 2017. Exceedances in 2012 occurred in April and May 2012 (0.000176 and .000329 mg/L, respectively), while the 2017 exceedance occurred in September 2017 (0.00045 mg/L). No exceedances were observed at station BC-37. The median cadmium concentration at this station was 0.00005 mg/L. On the South Klondike River, one exceedance was observed at BC-38, upstream of the Brewery Creek property (4%) and three downstream at the BC-6 (~7%).

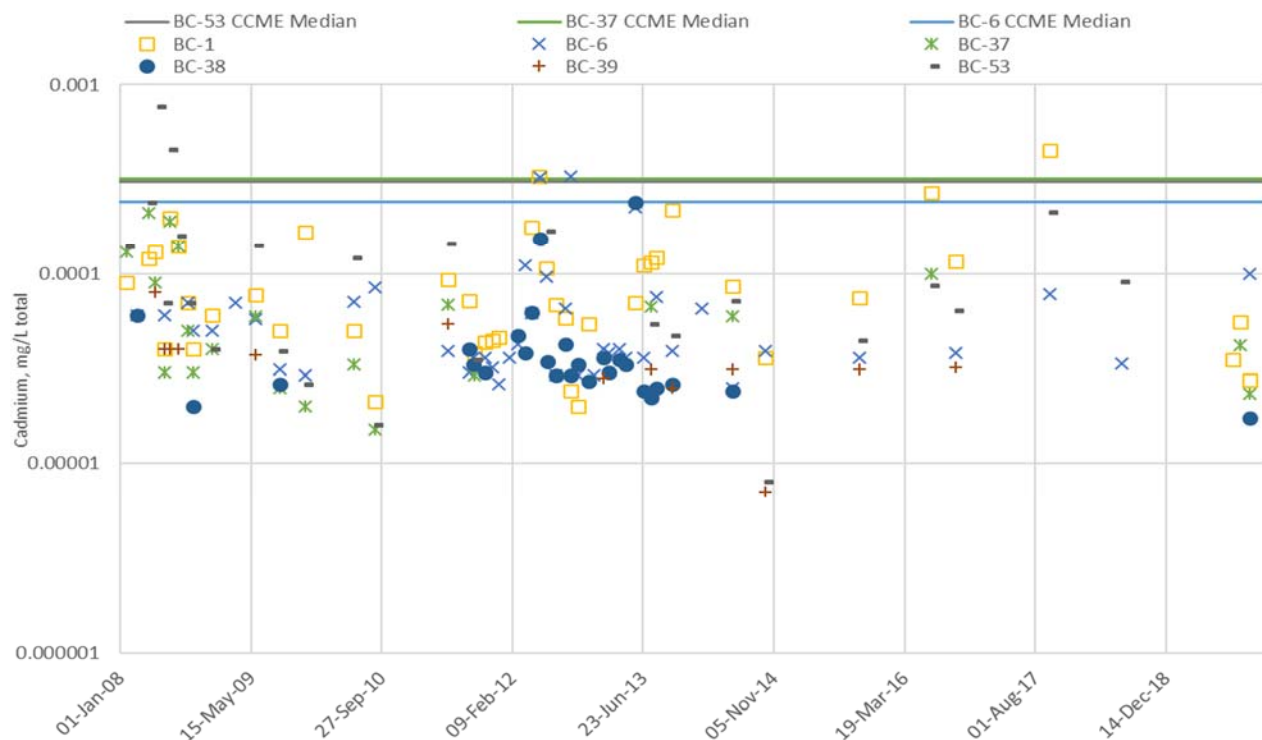


Figure 3-3: Total Cadmium Concentration, lower Laura Creek 2008 – 2019 (note log scale)

3.4 COPPER

The CCME guideline for total copper varies slightly between sites. Figure 3-4 shows the copper concentrations for all station and displays the median copper guidelines for stations BC-53, BC-37 and BC-6 for reference. There were no exceedances of dissolved copper at any site in 2019.

Total copper exceeded the CCME guideline seven of twenty-four times at BC-53 (~29%), and once out of fifteen sampling events at BC-39 (~7%). The median copper concentration at BC-53 and BC-39 were 0.0023 mg/L and 0.00081 mg/L, respectively.

The CCME guideline for total copper was exceeded twelve times out of forty-two events at BC-1 (~29%) and four times out of twenty-one events at BC-37 (19%). On the South Klondike River, the CCME guideline was exceeded twice upstream at BC-38 (8%) and twice downstream at BC-6 (~5%) of the Brewery Creek property. The exceedances occurred in May 2012 and May 2013 at both sites and were likely caused by natural sediment loading associated with spring freshet. Note that aluminum was also found to be elevated during the same sampling events.

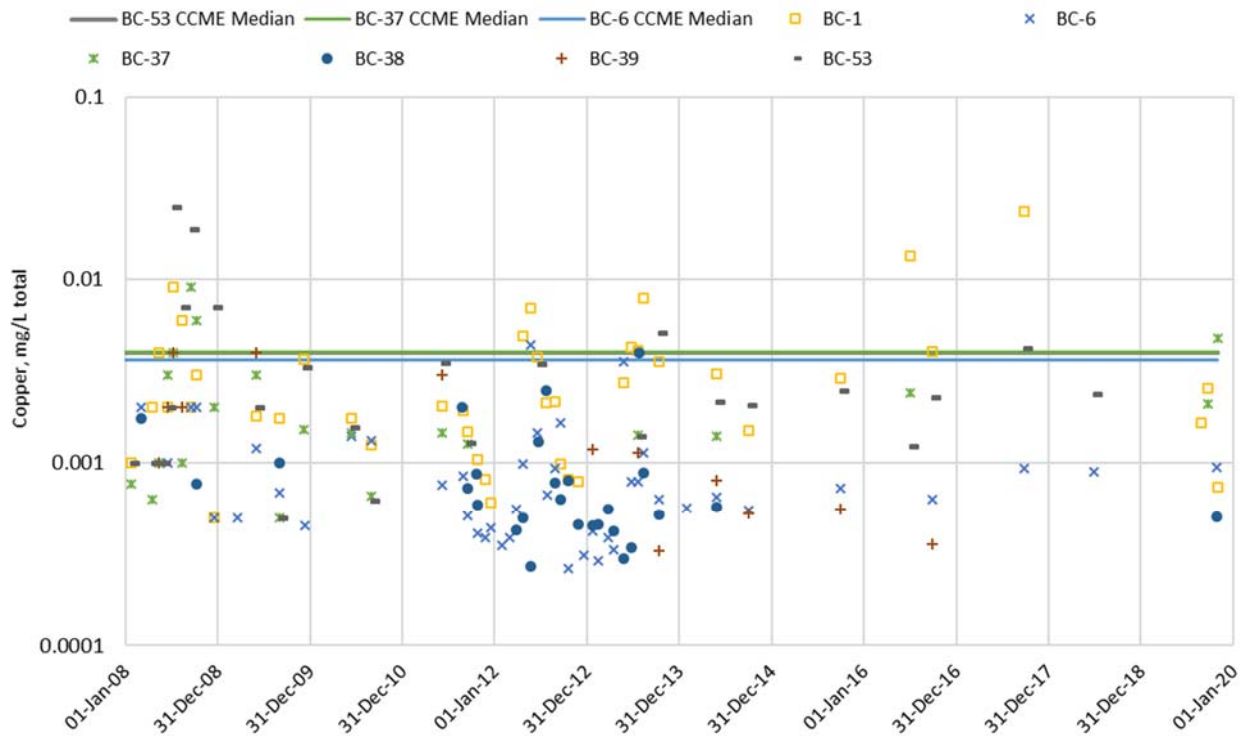


Figure 3-4: Total Copper Concentration, lower Laura Creek 2008-2019 (note log scale)

3.5 IRON

The total iron results are shown on Figure 3-5. Total iron exceeded the CCME guideline of 0.3 mg/L on fifteen of the twenty-four sampling events at BC-53 (~63%). The median concentration of total iron over this period was approximately 0.71 mg/L.

Total iron exceeded the CCME guideline during three of the fifteen sampling events at BC-39 (~20%). The median concentration of total iron during this time was approximately 0.022 mg/L. A maximum concentration of 2.01 mg/L was observed in July 2008.

The CCME guideline for total iron was exceeded twenty-nine times out of forty-two sampling events at BC-1 (~69%) and thirteen times out of twenty-one at BC-37 (62%). The CCME guideline for total iron was exceeded twice in the South Klondike River upstream of the Brewery Creek property (8%), at station BC-38 and twice downstream (~5%), at station BC-6.

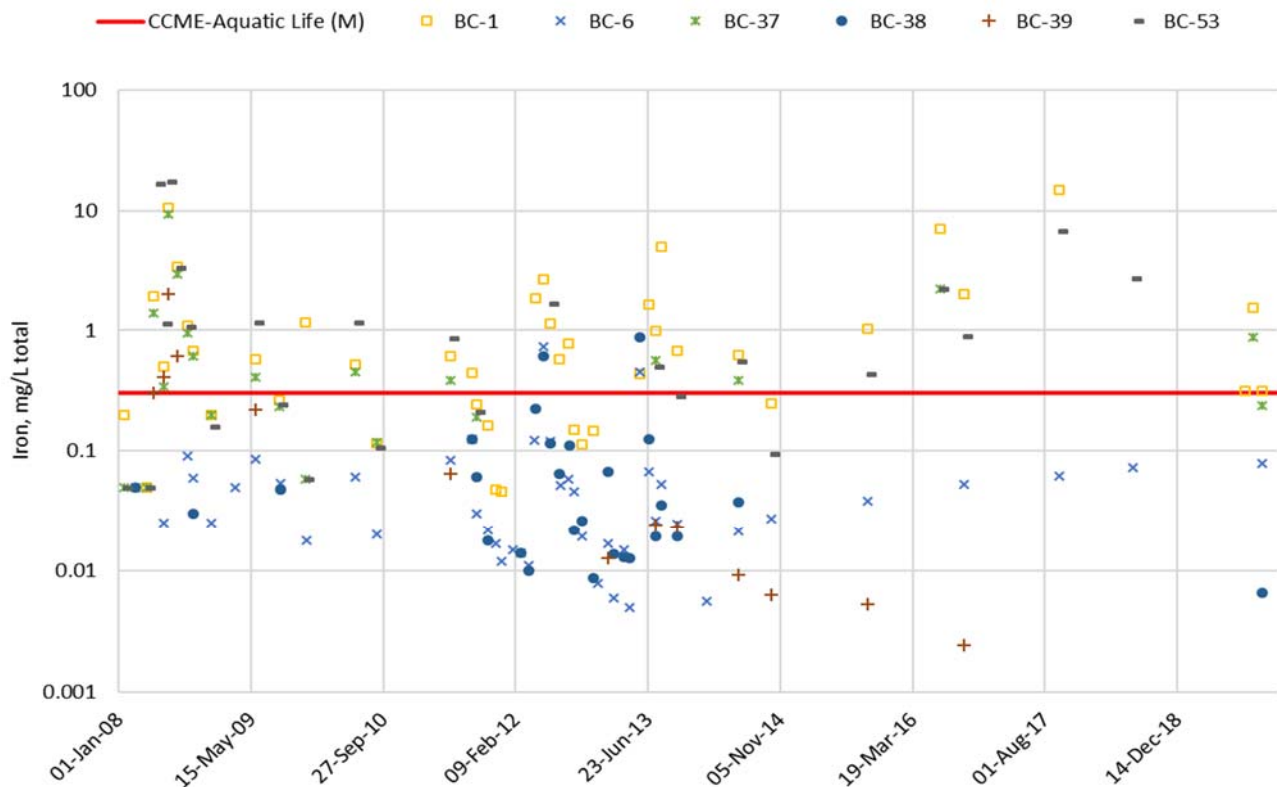


Figure 3-5: Total Iron Concentrations, lower Laura Creek 2008-2019 (note log scale)

4 HYDROLOGY

Laura Creek hydrology exhibits a typical seasonal pattern that has remained mostly unchanged over the years. During the winter months (October to April) no flow measurements were generally taken as the flow is minimal or zero. It has been documented over the years that Laura Creek typically goes to ground between the Klondike Ditch Road and the South Klondike River at various times of the year. Table 4-1 presents stream discharge results taken in Laura Creek since 2006.

Table 4-1 Stream Discharge Measurements in Laura Creek, 2006-2019 (m³/s)

Date	BC-1	BC-37	BC-39	BC-53
29-Aug-06	0.181	-	-	-
1-May-07	-	-	1.176	0.121
1-Jun-07	0.164	-	0.072	-
1-Aug-07	0.111	-	0.032	0.044
1-Sep-07	0.998	0.052	0.037	0.158
18-Jun-08	0.066	-	0.002	-
9-Jul-08	0.124	-	-	-
12-Aug-08	0.184	-	0.079	-
18-Sep-08	-	0.073	-	-
3-Jun-09	0.095	0.107	0.007	-
1-Sep-09	0.086	-	-	0.101
1-Sep-10	-	0.100	-	-
7-Jun-11	-	0.074	-	-
1-May-12	0.251	-	-	-
1-Jul-12	0.175	-	-	-
1-Aug-12	0.152	-	-	-
1-Sep-12	0.088	-	-	-
23-Jul-13	0.102	-	-	-
13-Aug-13	0.075	-	-	-
10-Oct-13	0.193	-	-	-
29-May-14	0.0939	0.0850	-	-
29-Sept-15	0.211	-	0.0038	0.202
30-Jun-16	0.144	0.389	-	-
28-Sept-16	0.159	-	-	0.124
27-Jun-18	-*	-	-	0.133
27-Aug-19	0.0533	0.0173	-	-
24-Sept-19	0.0905	0.143	-	-
30-Oct-19	0.0346	0.00646	-	-

*Bear in area during sampling event. Unable to collect flow data.

5 SEDIMENT MONITORING

Seven metals and metalloids were selected from the sediment analysis results, as they may be present in the ore bodies and/or have the potential to be toxic to aquatic organisms. The concentrations of these metals and metalloids were compared to the CCME (1999) interim freshwater sediment quality guidelines (ISQG) and to the probable effects levels (PEL). Generally, concentrations greater than the PEL have a 50% incidence of creating adverse biological effects. Results from stations located on Laura Creek (BC-1, BC-37, BC-39 and BC-53) and on the South Klondike River (BC-6 and BC-38) are discussed below. There was no sediment monitoring completed between 2014 to 2018, as water license requirements were only required until 2009, and additional baseline monitoring was conducted in 2012 and 2019.

5.1 ARSENIC

The ISQG (5.9 ppm) was exceeded at all stations of interest and at every sampling event, including during baseline. The PEL (17 ppm) was also regularly exceeded in Laura Creek, with the highest concentration recorded at BC-1 in 2000, at 121.6 ppm. Arsenic levels in the South Klondike River also marginally exceeded the PEL on several occasions. Figure 5-1 shows historic yearly sediment quality results available for arsenic on Laura Creek and the South Klondike River. As Figure 5-1 shows, arsenic levels at BC-1, BC-37 have decreased from what they were in the late 1990's and early 2000. Arsenic levels at BC-53 is also showing a decreasing trend although the record is shorter. Arsenic levels at BC-39 were still high in 2007, but recent 2019 data shows that the concentration has dropped. Overall arsenic levels in Laura Creek sediments are comparable to pre-mining levels the early 1990's. Arsenic is a naturally occurring element in the study area; however, disturbance near Laura Creek may have contributed to an increase in concentrations. Arsenic levels in the South Klondike River remained relatively constant over the period 1991-2012, and 2019.

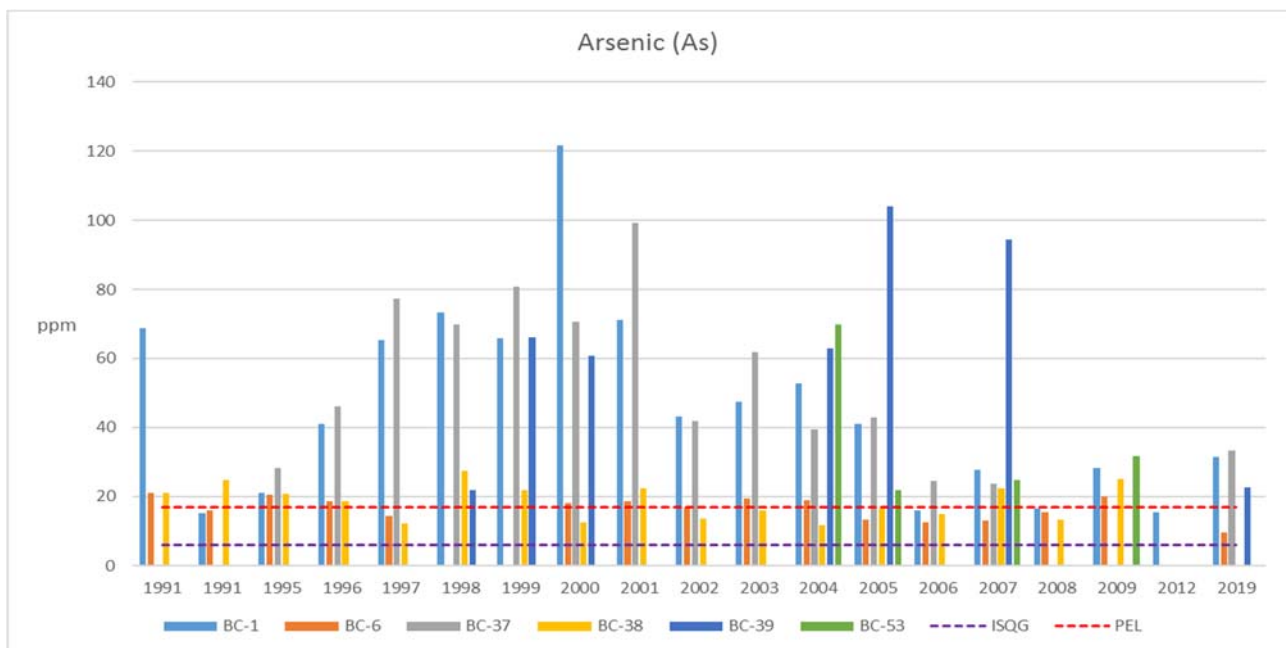


Figure 5-1 Arsenic Concentrations in Stream Sediments

5.2 CADMIUM

The cadmium data are presented in Figure 5-2. Note that results that are below the lab detection limit are not shown on this graph. In one of the 1991 studies as well as in 1995, the detection limit was higher than the ISQG so it is not known if there were exceedances. The concentration of cadmium exceeded the ISQG of 0.6 ppm in several of the streams sediments, but all were below the PEL of 3.5 ppm, except for one isolated sample collected on the South Klondike River in 1991 that reached 13 ppm. Such high cadmium values were never observed since. There were no clear trends in cadmium values over time, although recent results generally appear to be in the lower range of values encountered since 1991. Site BC-6 on the South Klondike River shows higher concentration during the baseline monitoring in 2019 (1.79 ppm) than in previous years, however the concentration was still well below the PEL.

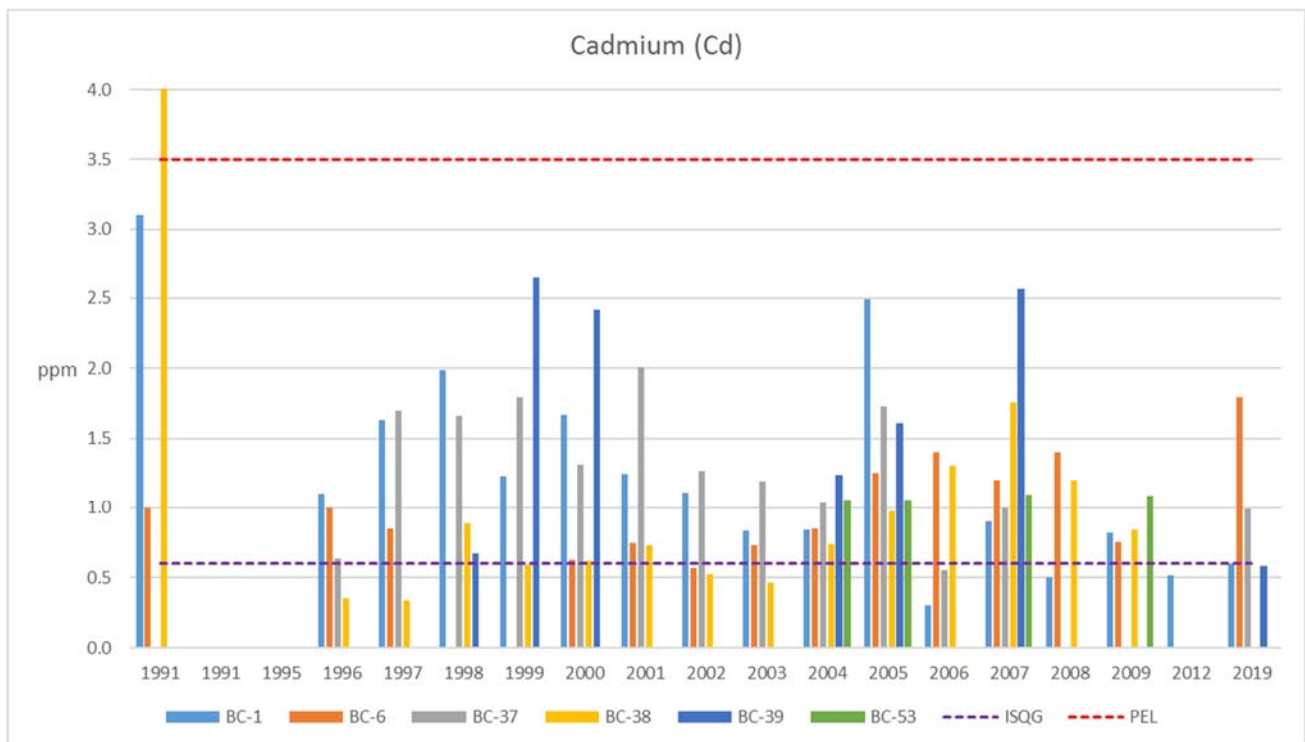


Figure 5-2 Cadmium Concentrations in Stream Sediments

5.3 COPPER

The copper results are shown in Figure 5-3. Copper concentrations were generally below the ISQG of 35.7 ppm, although exceedances were observed at all stations sampled in 1999 (reaching a maximum of 115.1 ppm at station BC-38), and occasional exceedances occurred at other stations, the most important ones observed at BC-6. All results were well below the PEL of 197 ppm. Little change was observed in the copper levels over the period 1991-2012, or in 2019. Most of the elevated copper concentrations were found in the South Klondike River.

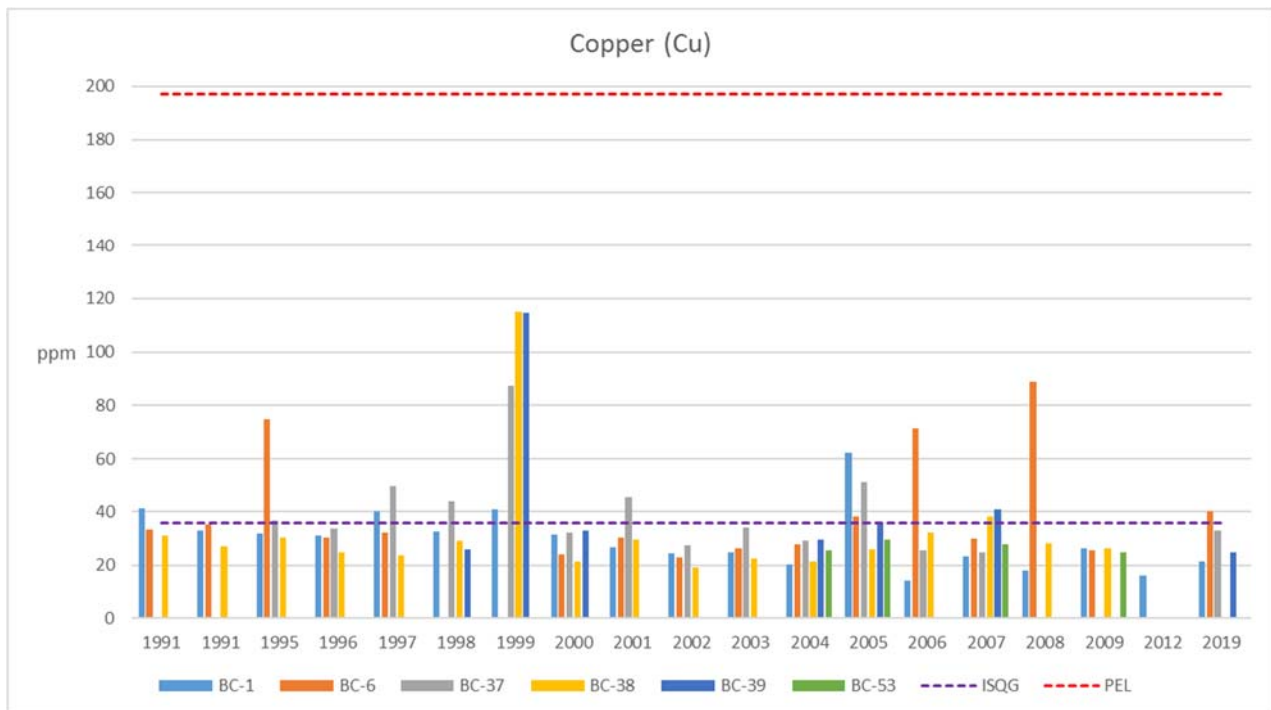


Figure 5-3 Copper Concentrations in Stream Sediments

5.4 MERCURY

The mercury concentration results are shown in Figure 5-4. The mercury ISQG of 170 ppb was exceeded on numerous occasions in Laura Creek and marginally on two occasions in the South Klondike River over the period 1991-2012. The PEL of 486 ppb was exceeded twice, once at BC-1 in 2000 (507.6 ppb) and once at BC-37 in 2001 (499.3 ppb). Mercury levels in the South Klondike River remained relatively constant over the period 1991-2012 and in 2019. Mercury levels in Laura Creek generally increased in the late 1990's and early 2000 then decreased subsequently (Figure 5-4). Recent mercury levels observed in Laura Creek were comparable to pre-mining levels, with the exception of BC-06, in 2019 (170ppb), which meets the ISQG. Note that below the lab detection limit are not shown on Figure 5-4. This was the case of all stations sampled in 1996, but given that the detection limit was 100 ppb, it can be concluded that results were below the ISQG.

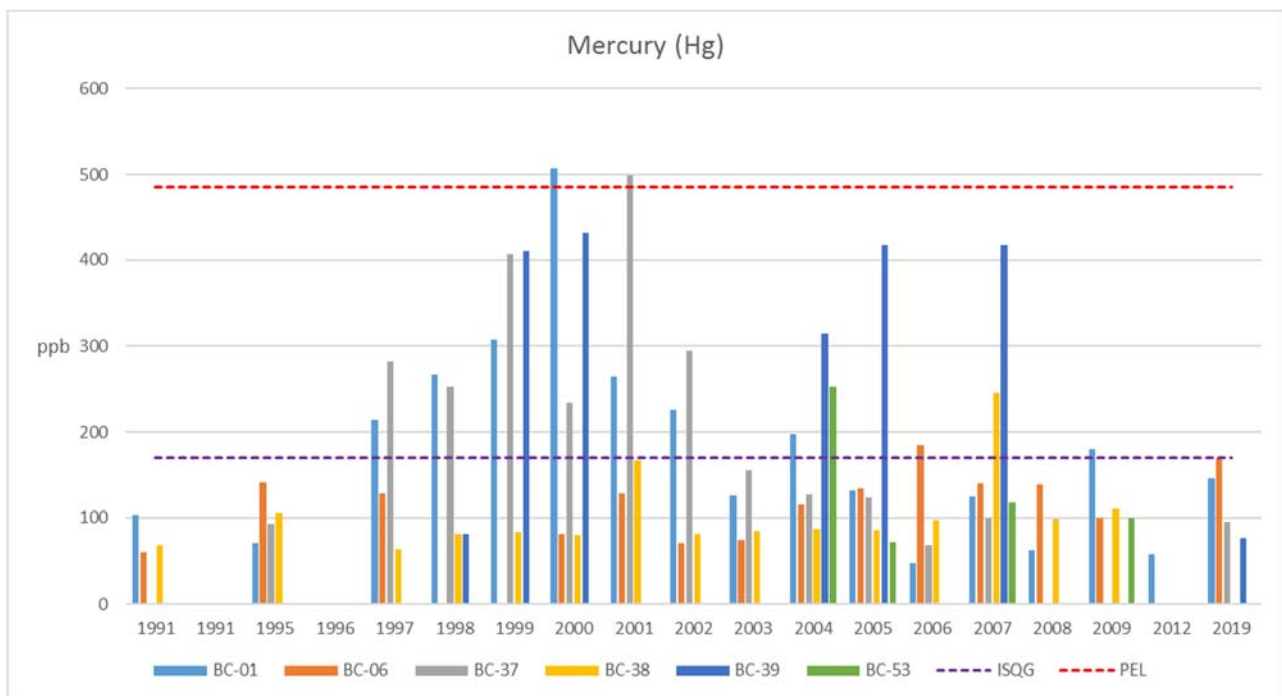


Figure 5-4 Mercury Concentrations in Stream Sediments

5.5 LEAD

Figure 5-5 presents the lead results. Concentrations of lead were very low throughout the study area and during the monitoring period and were all below the ISQG of 35 ppm at all of the sites, and well below the PEL of 91.3 ppm. Lead levels have remained relatively constant over the period 1991-2012, although slightly higher levels were observed in Laura Creek between 1997 and 2000, and again in 2005. Low lead concentrations were also observed during the 2019 baseline monitoring. Note that the results that were below the lab detection limit are not shown in Figure 5-5. This was the case at station BC-38 in 1991 and at BC-1 and BC-38 in 1995 but given that the detection limit was below the ISQG, results do not exceed the guideline.

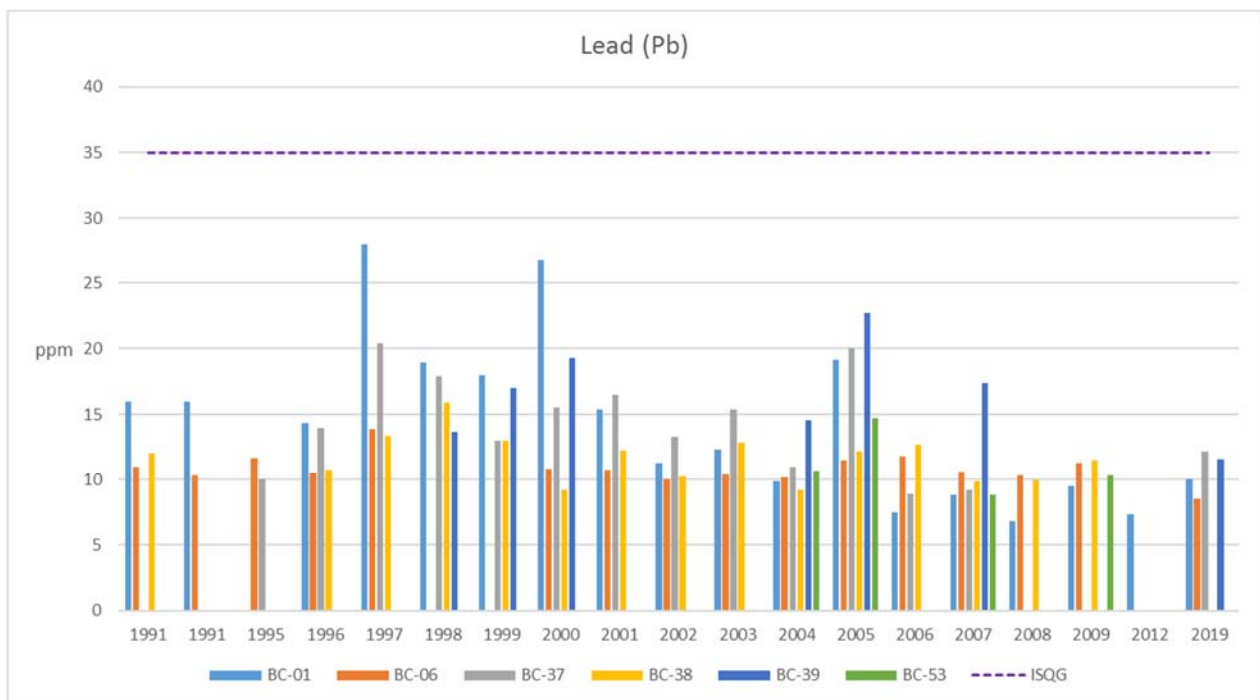


Figure 5-5 Lead Concentrations in Stream Sediments

5.6 SELENIUM

Selenium results are shown in Figure 5-6. Selenium has been identified as an element of concern at the Brewery Creek mine site but currently there are no sediment quality guidelines for selenium. In Laura Creek, selenium values ranged between below the lab detection limit of 0.3 ppm (BC-1 in 2006) to 4.2 ppm (BC-37 in 1997) and show a decreasing trend over the 1997-2012 period, and in 2019 (no selenium data was available prior to 1997). Selenium values in the South Klondike River were more or less constant over the same period, ranging between below the detection limit of 0.3 ppm (BC-38 in 2006) to 1.7 ppm (BC-06 in 2008).

Environment Canada (EC) maintains a database on metals in stream sediments from sites around the Yukon, 1,011 sediment samples with selenium measurement were found by Laberge Environmental in the EC database. Selenium concentrations in the EC database ranged from 0.1 ppm to 38.8 ppm with a median of 1.1 ppm. Selenium concentrations in Laura Creek and the South Klondike River samples generally fell within close range to the EC database median.

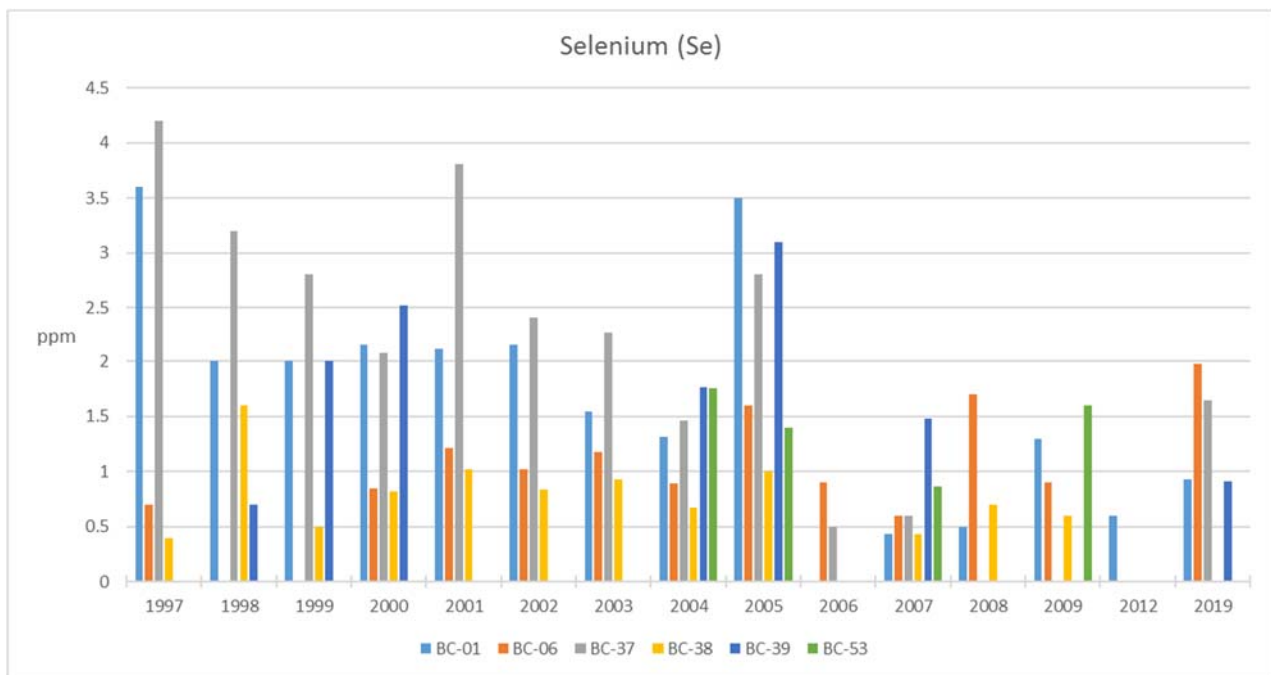


Figure 5-6 Selenium Concentrations in Stream Sediments

5.7 ZINC

Zinc concentrations exceeded the ISQG of 123 ppm for most samples, however levels in Laura Creek and in the South Klondike River were all well below the PEL (315 ppm), with the exception of BC-06 on the South Klondike river, which had an elevated zinc concentration of 307 ppm, in 2019. This sample was collected during the current baseline monitoring program, and it is unclear if the elevated concentration is an anomaly or if zinc levels have changed between 2012 and 2019. No obvious trend in zinc levels can be detected over the monitoring period, as can be seen in Figure 5-7. The 2019 baseline monitoring results show that zinc concentrations have not changed significantly since 1991, with the exception of BC-06.

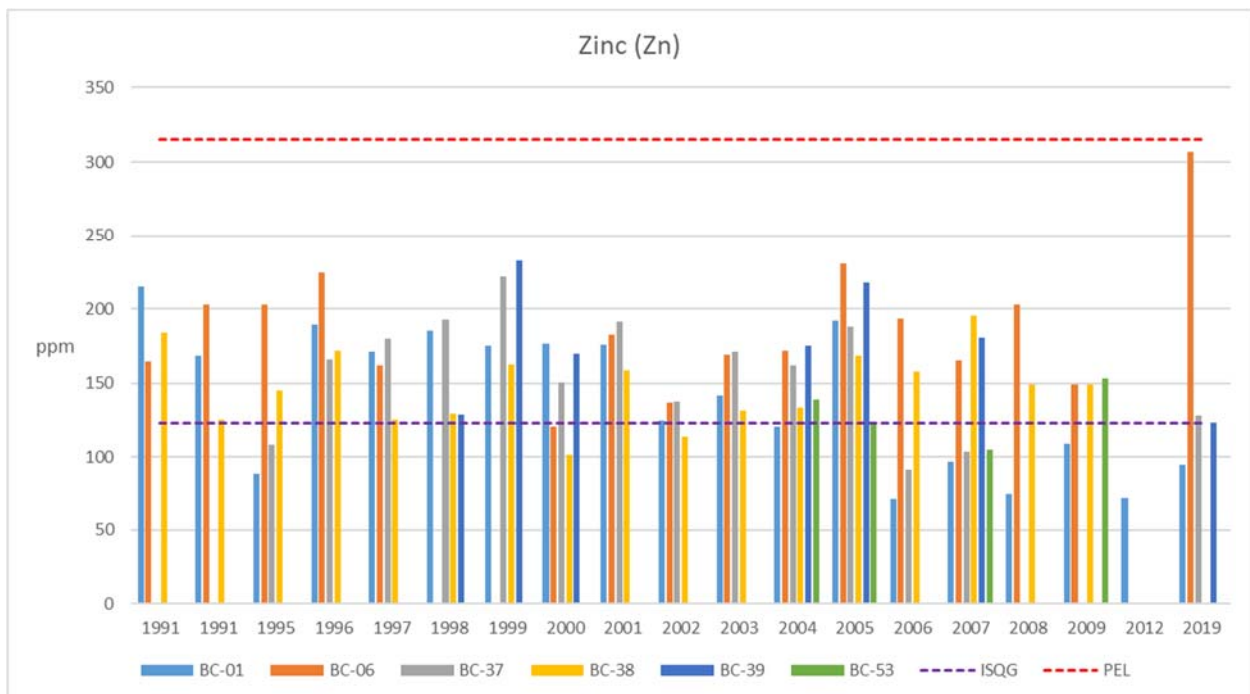


Figure 5-7 Zinc Concentrations in Stream Sediments

6 BENTHIC MONITORING

There was no benthic monitoring completed in 2014 to 2019, as water licence requirements for this site were only required until 2009. Benthic monitoring was last completed in 2012 as part of Golden Predator’s extended baseline monitoring program at Brewery Creek.

7 DISCUSSION

Data from the study site was assessed to determine if downstream receiving waters are being adversely affected relative to historic conditions. Results from the surface water quality program were reviewed and compared with the existing Water Use Licence parameters and CCME Guidelines to assess downstream receiving water effects. The Laura Creek AMP was not implemented; as such the site-specific selenium criterion was not recalculated. Based on the results of this study, the water chemistry of lower Laura Creek is unchanged from historic conditions. The following conclusion can be summarized from this study:

- The SSWQO for selenium was not exceeded at BC-39 in the 2008 to 2019 monitoring period and was only exceeded at BC-53 for two events in 2008. BC-53 has not exceeded the SSWQO since 2008;
- Water quality at BC-39 exceeded the CCME guidelines for freshwater aquatic life for total aluminum, chromium, copper and iron. These exceedances were consistent with existing conditions work conducted in 2007 and there have been no further exceedances since August 2008;
- Aluminum concentrations were similar to levels assessed in the 2007 existing conditions study, and lower than the historic average from 1997 to 2004;
- All cadmium results were well below the CCME cadmium guideline at BC-39;
- The CCME guideline for total copper was slightly exceeded once at BC-39 over the period from 2008- 2019. This is consistent with observations made in 2007;
- While total iron exceeded the CCME guideline at BC-39 on a few occasions, this was also the case during pre-mining conditions. The most recent samples (since June 2008) were all below the CCME guideline; and
- Hydrological conditions in lower Laura Creek have not changed appreciably since this area was investigated, as the creek still goes to ground during low flow or winter conditions.
- All sites did not exceed the PEL for any parameter during the 2019 sediment baseline monitoring.
- Although no obvious trends have been found from the sediment sample analyses, samples from 2019 are comparable to pre-mining levels.

APPENDIX D

LAB REPORTS – CERTIFICATE OF ANALYSIS



Your Project #: Surface Water
Your C.O.C. #: 562476-02-01

Attention: Jillian Chown

GOLDEN PREDATOR MINING CORP.
SUITE 250-200 BARRARD ST
VANCOUVER, BC
CANADA V6C 3L6

Report Date: 2019/07/31
Report #: R2761438
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B958334

Received: 2019/07/17, 09:00

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Acidity pH 4.5 & pH 8.3 (as CaCO3)	8	N/A	2019/07/20	BBY6SOP-00037	SM 23 2310 B m
Alkalinity - Low Level	8	N/A	2019/07/19	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	6	N/A	2019/07/19	BBY6SOP-00011	SM 22 4500-Cl- E m
Chloride - Low Level	2	N/A	2019/07/31	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) -Lab Filtered (1, 2)	8	N/A	2019/07/24	AB SOP-00087	MMCW 119 1996 m
Conductance - Low Level	8	N/A	2019/07/19	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	7	N/A	2019/07/25	BBY6SOP-00048	SM 23 4500-F C m
Fluoride - Low Level	1	N/A	2019/07/26	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (3)	5	N/A	2019/07/19	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	3	N/A	2019/07/23	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	8	N/A	2019/07/20	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	1	2019/07/19	2019/07/19	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV	1	2019/07/19	2019/07/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV	6	2019/07/24	2019/07/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	8	2019/07/23	2019/07/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	8	N/A	2019/07/20	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	8	N/A	2019/07/19	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	3	2019/07/20	2019/07/23	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2019/07/19	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2019/07/23	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	5	N/A	2019/07/19	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	7	N/A	2019/07/23	BBY6SOP-00016	SM 22 4500-N C m
Nitrogen (Total)	1	N/A	2019/07/30	BBY6SOP-00016	SM 22 4500-N C m
Ammonia-N Low Level (Preserved) (1)	8	N/A	2019/07/23	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	8	N/A	2019/07/19	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	8	N/A	2019/07/19	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	8	N/A	2019/07/19	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	8	N/A	2019/07/18	BBY7 WI-00004	SM 23 3030B m
pH Water (4)	8	N/A	2019/07/19	BBY6SOP-00026	SM 22 4500-H+ B m
Orthophosphate by Konelab	7	N/A	2019/07/20	BBY6SOP-00013	SM 23 4500-P E m
Orthophosphate by Konelab	1	N/A	2019/07/23	BBY6SOP-00013	SM 23 4500-P E m



Your Project #: Surface Water
Your C.O.C. #: 562476-02-01

Attention: Jillian Chown

GOLDEN PREDATOR MINING CORP.
SUITE 250-200 BURRARD ST
VANCOUVER, BC
CANADA V6C 3L6

Report Date: 2019/07/31
Report #: R2761438
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B958334

Received: 2019/07/17, 09:00

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Sulphate - Low Level	4	N/A	2019/07/19	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	2	N/A	2019/07/24	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	2	N/A	2019/07/31	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids - Low Level (1)	8	2019/07/21	2019/07/21	AB SOP-00065	SM 23 2540 C m
TKN (Calc. TN, N/N) total	8	N/A	2019/07/23	BBY WI-00033	Auto Calc
Carbon (Total Organic) (1, 5)	8	N/A	2019/07/25	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus (1)	6	2019/07/24	2019/07/25	AB SOP-00024	SM 23 4500-P A,B,F m
Total Phosphorus (1)	2	2019/07/26	2019/07/26	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR) (1)	8	2019/07/22	2019/07/22	AB SOP-00061	SM 23 2540 D m
Turbidity	8	N/A	2019/07/19	BBY6SOP-00027	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by BV Labs Calgary Environmental

(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.



Your Project #: Surface Water
Your C.O.C. #: 562476-02-01

Attention: Jillian Chown

GOLDEN PREDATOR MINING CORP.
SUITE 250-200 BARRARD ST
VANCOUVER, BC
CANADA V6C 3L6

Report Date: 2019/07/31
Report #: R2761438
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B958334

Received: 2019/07/17, 09:00

- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Bureau Veritas Laboratories
31 Jul 2019 17:52:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (604) 734 7276

=====
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9976		WC9977		
Sampling Date				2019/07/15 09:30		2019/07/15 10:50		
COC Number				562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-51W	QC Batch	DUP	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	0.06	-	<0.0050	9514746	<0.0050	0.0050	9514746
Calculated Parameters								
Filter and HNO3 Preservation	N/A	-	-	FIELD	ONSITE	FIELD		ONSITE
Nitrate (N)	mg/L	-	-	<0.020	9512347	0.039	0.020	9512347
Total Total Kjeldahl Nitrogen (Calc)	mg/L	-	-	0.159	9513456	0.120	0.020	9513456
Misc. Inorganics								
Fluoride (F)	mg/L	0.12	-	0.240	9521874	0.230	0.010	9523616
Acidity (pH 4.5)	mg/L	-	-	3.1	9515411	5.2	1.0	9515412
Alkalinity (Total as CaCO3)	mg/L	-	-	<0.50 (1)	9515159	<0.50	0.50	9515159
Total Organic Carbon (C)	mg/L	-	-	1.9	9519991	1.4	0.50	9519991
Acidity (pH 8.3)	mg/L	-	-	30.5	9515411	30.7	1.0	9515412
Alkalinity (PP as CaCO3)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Bicarbonate (HCO3)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Carbonate (CO3)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Hydroxide (OH)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Total Suspended Solids	mg/L	-	-	2.6	9516617	1.9	1.0	9516617
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	-	-	1.3	9519946	1.5	0.50	9519946
Anions								
Dissolved Sulphate (SO4)	mg/L	-	-	185	9515911	184	0.50	9520761
Dissolved Chloride (Cl)	mg/L	120	-	0.50	9515910	<0.50	0.50	9515910
Nutrients								
Orthophosphate (P)	mg/L	-	-	<0.0050	9516253	<0.0050	0.0050	9516253
Total Phosphorus (P)	mg/L	-	-	<0.015 (2)	9520039	<0.015 (2)	0.015	9520039
Total Ammonia (N)	mg/L	-	-	0.0064	9517429	0.011	0.0050	9517429
Nitrate plus Nitrite (N)	mg/L	-	-	<0.020	9514743	0.039	0.020	9514743
Total Nitrogen (N)	mg/L	-	-	0.159	9518771	0.159	0.020	9518771
Physical Properties								
Conductivity	uS/cm	-	-	428	9515154	430	1.0	9515154
pH	pH	6.5:9.0	7.0:8.7	3.77	9515146	3.77		9515146
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
(1) Matrix spike exceeds acceptance limits due to suspected matrix interference.								
(2) Detection limits raised due to insufficient sample volume.								



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9976		WC9977		
Sampling Date				2019/07/15 09:30		2019/07/15 10:50		
COC Number				562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-51W	QC Batch	DUP	RDL	QC Batch
Physical Properties								
Total Dissolved Solids	mg/L	-	-	300	9516328	328	1.0	9516328
Turbidity	NTU	-	-	1.6	9515261	0.96	0.10	9515261
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9978		WC9979		
Sampling Date				2019/07/15 10:45		2019/07/15 11:50		
COC Number				562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-15	QC Batch	BC-04	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	0.06	-	<0.0050	9514746	<0.0050	0.0050	9514746
Calculated Parameters								
Filter and HNO3 Preservation	N/A	-	-	FIELD	ONSITE	FIELD		ONSITE
Nitrate (N)	mg/L	-	-	<0.020	9512347	0.124	0.020	9512347
Total Total Kjeldahl Nitrogen (Calc)	mg/L	-	-	0.221	9513456	0.255	0.020	9513456
Misc. Inorganics								
Fluoride (F)	mg/L	0.12	-	0.120	9521874	0.370	0.010	9521874
Acidity (pH 4.5)	mg/L	-	-	<1.0	9515412	<1.0	1.0	9515411
Alkalinity (Total as CaCO3)	mg/L	-	-	139	9515159	175	0.50	9515159
Total Organic Carbon (C)	mg/L	-	-	1.5	9519991	2.5	0.50	9519991
Acidity (pH 8.3)	mg/L	-	-	4.1	9515412	3.2	1.0	9515411
Alkalinity (PP as CaCO3)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Bicarbonate (HCO3)	mg/L	-	-	169	9515159	214	0.50	9515159
Carbonate (CO3)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Hydroxide (OH)	mg/L	-	-	<0.50	9515159	<0.50	0.50	9515159
Total Suspended Solids	mg/L	-	-	1.7	9516617	1.4	1.0	9516617
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	-	-	1.3	9519946	2.2	0.50	9519946
Anions								
Dissolved Sulphate (SO4)	mg/L	-	-	288 (1)	9515911	203 (1)	5.0	9530183
Dissolved Chloride (Cl)	mg/L	120	-	<0.50	9515910	<0.50	0.50	9530181
Nutrients								
Orthophosphate (P)	mg/L	-	-	0.0167	9519639	<0.0050	0.0050	9516253
Total Phosphorus (P)	mg/L	-	-	<0.015 (2)	9520039	<0.015 (2)	0.015	9520039
Total Ammonia (N)	mg/L	-	-	0.045	9517429	0.028	0.0050	9517429
Nitrate plus Nitrite (N)	mg/L	-	-	<0.020	9514743	0.124	0.020	9514743
Total Nitrogen (N)	mg/L	-	-	0.221	9518773	0.379	0.020	9518771
Physical Properties								
Conductivity	uS/cm	-	-	923	9515154	707	1.0	9515154
pH	pH	6.5:9.0	7.0:8.7	8.18	9515146	8.13		9515146
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.								
(2) Detection limits raised due to insufficient sample volume.								



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9978		WC9979		
Sampling Date				2019/07/15 10:45		2019/07/15 11:50		
COC Number				562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-15	QC Batch	BC-04	RDL	QC Batch
Physical Properties								
Total Dissolved Solids	mg/L	-	-	754	9516328	533	1.0	9516328
Turbidity	NTU	-	-	0.54	9515261	0.99	0.10	9515261
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9980			WC9981		
Sampling Date				2019/07/15 11:30			2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-10	RDL	QC Batch	BC-28	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.06	-	<0.0050	0.0050	9514746	0.293	0.0050	9514749
Calculated Parameters									
Filter and HNO3 Preservation	N/A	-	-	FIELD		ONSITE	FIELD		ONSITE
Nitrate (N)	mg/L	-	-	<0.020	0.020	9512347	125	2.0	9512347
Total Total Kjeldahl Nitrogen (Calc)	mg/L	-	-	0.216	0.020	9513456	<2.0	2.0	9513456
Misc. Inorganics									
Fluoride (F)	mg/L	0.12	-	0.150	0.010	9521874	0.150	0.010	9521874
Acidity (pH 4.5)	mg/L	-	-	<1.0	1.0	9515412	<1.0	1.0	9515412
Alkalinity (Total as CaCO3)	mg/L	-	-	107	0.50	9515159	39.6	0.50	9515159
Total Organic Carbon (C)	mg/L	-	-	2.4	0.50	9519991	4.5	0.50	9519991
Acidity (pH 8.3)	mg/L	-	-	2.1	1.0	9515412	<1.0	1.0	9515412
Alkalinity (PP as CaCO3)	mg/L	-	-	<0.50	0.50	9515159	2.83	0.50	9515159
Bicarbonate (HCO3)	mg/L	-	-	131	0.50	9515159	41.4	0.50	9515159
Carbonate (CO3)	mg/L	-	-	<0.50	0.50	9515159	3.40	0.50	9515159
Hydroxide (OH)	mg/L	-	-	<0.50	0.50	9515159	<0.50	0.50	9515159
Total Suspended Solids	mg/L	-	-	2.3	1.0	9516617	35	1.0	9516617
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	-	-	1.6	0.50	9519946	3.9	0.50	9519946
Anions									
Dissolved Sulphate (SO4)	mg/L	-	-	64.8	0.50	9515911	400 (1)	5.0	9530183
Dissolved Chloride (Cl)	mg/L	120	-	<0.50	0.50	9515910	14	0.50	9530181
Nutrients									
Orthophosphate (P)	mg/L	-	-	<0.0050	0.0050	9516254	<0.0050	0.0050	9516254
Total Phosphorus (P)	mg/L	-	-	<0.015 (2)	0.015	9520039	<0.015 (2)	0.015	9520039
Total Ammonia (N)	mg/L	-	-	0.023	0.0050	9515149	0.18	0.0050	9517429
Nitrate plus Nitrite (N)	mg/L	-	-	<0.020	0.020	9514743	125 (1)	2.0	9514748
Total Nitrogen (N)	mg/L	-	-	0.216	0.020	9518771	115 (1)	2.0	9518773
Physical Properties									
Conductivity	uS/cm	-	-	325	1.0	9515154	1760	1.0	9515154
pH	pH	6.5:9.0	7.0:8.7	8.19		9515146	8.74		9515146
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.									
(2) Detection limits raised due to insufficient sample volume.									



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9980			WC9981		
Sampling Date				2019/07/15 11:30			2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-10	RDL	QC Batch	BC-28	RDL	QC Batch
Physical Properties									
Total Dissolved Solids	mg/L	-	-	224	1.0	9516328	1400	1.0	9516328
Turbidity	NTU	-	-	1.0	0.10	9515270	12	0.10	9515270
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9982			WC9983		
Sampling Date				2019/07/15 13:20			2019/07/15 14:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-28B	RDL	QC Batch	BC-289	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.06	-	0.0075	0.0050	9514746	0.385	0.0050	9514746
Calculated Parameters									
Filter and HNO3 Preservation	N/A	-	-	FIELD		ONSITE	FIELD		ONSITE
Nitrate (N)	mg/L	-	-	369	8.0	9512347	262	4.0	9512347
Total Total Kjeldahl Nitrogen (Calc)	mg/L	-	-	<8.0	8.0	9513456	<4.0	4.0	9513456
Misc. Inorganics									
Fluoride (F)	mg/L	0.12	-	0.200	0.010	9521874	0.200	0.010	9521874
Acidity (pH 4.5)	mg/L	-	-	<1.0	1.0	9515412	<1.0	1.0	9515411
Alkalinity (Total as CaCO3)	mg/L	-	-	130	0.50	9515159	63.2	0.50	9515159
Total Organic Carbon (C)	mg/L	-	-	4.3	0.50	9519991	6.8	0.50	9519991
Acidity (pH 8.3)	mg/L	-	-	5.5	1.0	9515412	4.9 (1)	1.0	9515411
Alkalinity (PP as CaCO3)	mg/L	-	-	<0.50	0.50	9515159	<0.50	0.50	9515159
Bicarbonate (HCO3)	mg/L	-	-	159	0.50	9515159	77.1	0.50	9515159
Carbonate (CO3)	mg/L	-	-	<0.50	0.50	9515159	<0.50	0.50	9515159
Hydroxide (OH)	mg/L	-	-	<0.50	0.50	9515159	<0.50	0.50	9515159
Total Suspended Solids	mg/L	-	-	<1.0	1.0	9516617	8.4	1.0	9516617
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	-	-	3.9	0.50	9519946	6.3	0.50	9519946
Anions									
Dissolved Sulphate (SO4)	mg/L	-	-	860 (2)	5.0	9515911	935	5.0	9520761
Dissolved Chloride (Cl)	mg/L	120	-	26	0.50	9515910	20	0.50	9515910
Nutrients									
Orthophosphate (P)	mg/L	-	-	0.139	0.0050	9516253	0.0312	0.0050	9516253
Total Phosphorus (P)	mg/L	-	-	0.053 (3)	0.030	9523617	<0.030 (3)	0.030	9523617
Total Ammonia (N)	mg/L	-	-	1.5 (2)	0.025	9517429	0.076	0.0050	9517429
Nitrate plus Nitrite (N)	mg/L	-	-	369 (2)	8.0	9514743	263 (2)	4.0	9514743
Total Nitrogen (N)	mg/L	-	-	318 (2)	4.0	9518771	233 (2)	4.0	9528105
Physical Properties									
Conductivity	uS/cm	-	-	4060	1.0	9515154	3230	1.0	9515154
pH	pH	6.5:9.0	7.0:8.7	7.92		9515146	8.06		9515146
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
(1) Duplicate exceeds acceptance criteria due to sample matrix. Unable to reanalyze due to insufficient sample.									
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.									
(3) Detection limits raised due to insufficient sample volume.									



RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID				WC9982			WC9983		
Sampling Date				2019/07/15 13:20			2019/07/15 14:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-28B	RDL	QC Batch	BC-289	RDL	QC Batch
Physical Properties									
Total Dissolved Solids	mg/L	-	-	3670	1.0	9516328	2870	1.0	9516328
Turbidity	NTU	-	-	0.20	0.10	9515270	3.1	0.10	9515270
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID				WC9978	WC9980		WC9981		
Sampling Date				2019/07/15 10:45	2019/07/15 11:30		2019/07/15 13:00		
COC Number				562476-02-01	562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-15	BC-10	RDL	BC-28	RDL	QC Batch
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	-	-	27.9	82.7	3.0	690	15	9515776
Total Antimony (Sb)	ug/L	-	-	4.32	80.8	0.020	728	0.10	9515776
Total Arsenic (As)	ug/L	5	12.5	47.2	17.0	0.020	18.2	0.10	9515776
Total Barium (Ba)	ug/L	-	-	37.8	123	0.050	91.2	0.25	9515776
Total Beryllium (Be)	ug/L	-	-	<0.010	0.012	0.010	<0.050	0.050	9515776
Total Bismuth (Bi)	ug/L	-	-	<0.010	<0.010	0.010	0.059	0.050	9515776
Total Boron (B)	ug/L	1500	-	<10	<10	10	<50	50	9515776
Total Cadmium (Cd)	ug/L	-	0.12	0.0302	0.0545	0.0050	<0.025	0.025	9515776
Total Chromium (Cr)	ug/L	-	-	<0.10	0.27	0.10	1.06	0.50	9515776
Total Cobalt (Co)	ug/L	-	-	0.029	0.109	0.010	77.9	0.050	9515776
Total Copper (Cu)	ug/L	-	-	0.60	0.97	0.10	4.62	0.50	9515776
Total Iron (Fe)	ug/L	300	-	54.3	209	5.0	1010	25	9515776
Total Lead (Pb)	ug/L	-	-	0.139	0.330	0.020	1.24	0.10	9515776
Total Lithium (Li)	ug/L	-	-	1.71	2.52	0.50	<2.5	2.5	9515776
Total Manganese (Mn)	ug/L	-	-	4.19	11.5	0.10	23.4	0.50	9515776
Total Molybdenum (Mo)	ug/L	73	-	1.03	3.51	0.050	8.74	0.25	9515776
Total Nickel (Ni)	ug/L	-	-	0.52	1.21	0.10	1.70	0.50	9515776
Total Phosphorus (P)	ug/L	-	-	60.9	22.1	5.0	201	25	9515776
Total Selenium (Se)	ug/L	1	-	25.2	3.77	0.040	64.2	0.20	9515776
Total Silicon (Si)	ug/L	-	-	2190	2000	50	1340	250	9515776
Total Silver (Ag)	ug/L	0.25	7.5	<0.010	<0.010	0.010	<0.050	0.050	9515776
Total Strontium (Sr)	ug/L	-	-	1110	322	0.050	746	0.25	9515776
Total Thallium (Tl)	ug/L	0.8	-	0.0628	0.0753	0.0020	0.046	0.010	9515776
Total Tin (Sn)	ug/L	-	-	<0.20	<0.20	0.20	<1.0	1.0	9515776
Total Titanium (Ti)	ug/L	-	-	<2.0	2.3	2.0	27	10	9515776
Total Uranium (U)	ug/L	15	-	3.27	5.33	0.0050	7.09	0.025	9515776
Total Vanadium (V)	ug/L	-	-	0.21	0.71	0.20	2.3	1.0	9515776
Total Zinc (Zn)	ug/L	30	-	1.6	2.9	1.0	5.5	5.0	9515776
Total Zirconium (Zr)	ug/L	-	-	<0.10	<0.10	0.10	<0.50	0.50	9515776
Total Sulphur (S)	ug/L	-	-	132000	22400	600	149000	3000	9515776
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9976	WC9977		WC9978	WC9979		
Sampling Date				2019/07/15 09:30	2019/07/15 10:50		2019/07/15 10:45	2019/07/15 11:50		
COC Number				562476-02-01	562476-02-01		562476-02-01	562476-02-01		
	UNITS	FW	MAR	BC-51W	DUP	QC Batch	BC-15	BC-04	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	-	-	153	154	9512265	498	372	0.50	9512265
----------------------------	------	---	---	-----	-----	---------	-----	-----	------	---------

Elements

Dissolved Mercury (Hg)	ug/L	0.026	0.016	0.0089	0.0021	9520616	0.0043	<0.0020	0.0020	9520616
------------------------	------	-------	-------	--------	--------	---------	--------	---------	--------	---------

Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	-	-	1850	1870	9514616	3.04	6.82	0.50	9514616
Dissolved Antimony (Sb)	ug/L	-	-	1.74	1.74	9514616	4.33	2.54	0.020	9514616
Dissolved Arsenic (As)	ug/L	5	12.5	6.74	6.63	9514616	42.9	5.10	0.020	9514616
Dissolved Barium (Ba)	ug/L	-	-	33.2	33.5	9514616	36.1	62.7	0.020	9514616
Dissolved Beryllium (Be)	ug/L	-	-	4.84	4.88	9514616	<0.010	<0.010	0.010	9514616
Dissolved Bismuth (Bi)	ug/L	-	-	<0.0050	<0.0050	9514616	<0.0050	<0.0050	0.0050	9514616
Dissolved Boron (B)	ug/L	1500	-	<10	<10	9514616	<10	<10	10	9514616
Dissolved Cadmium (Cd)	ug/L	-	0.12	1.79	1.82	9514616	0.0210	0.0651	0.0050	9514616
Dissolved Chromium (Cr)	ug/L	-	-	0.27	0.25	9514616	<0.10	<0.10	0.10	9514616
Dissolved Cobalt (Co)	ug/L	-	-	19.7	19.8	9514616	0.0314	0.421	0.0050	9514616
Dissolved Copper (Cu)	ug/L	-	-	87.8	88.5	9514616	0.204	0.257	0.050	9514616
Dissolved Iron (Fe)	ug/L	300	-	535	531	9514616	2.8	237	1.0	9514616
Dissolved Lead (Pb)	ug/L	-	-	0.0915	0.0931	9514616	0.0123	0.0073	0.0050	9514616
Dissolved Lithium (Li)	ug/L	-	-	5.83	5.82	9514616	1.62	9.99	0.50	9514616
Dissolved Manganese (Mn)	ug/L	-	-	1010	994	9514616	1.34	104	0.050	9514616
Dissolved Molybdenum (Mo)	ug/L	73	-	<0.050	0.070	9514616	1.09	3.30	0.050	9514616
Dissolved Nickel (Ni)	ug/L	-	-	64.6	65.3	9514616	0.431	3.30	0.020	9514616
Dissolved Phosphorus (P)	ug/L	-	-	5.9 (1)	5.4	9514616	6.4	8.0	2.0	9514616
Dissolved Selenium (Se)	ug/L	1	-	3.52	3.50	9514616	25.9	3.54	0.040	9514616
Dissolved Silicon (Si)	ug/L	-	-	6860	6880	9514616	2040	3360	50	9514616
Dissolved Silver (Ag)	ug/L	0.25	7.5	0.0058	0.0085	9514616	<0.0050	<0.0050	0.0050	9514616
Dissolved Strontium (Sr)	ug/L	-	-	243	242	9514616	1100	603	0.050	9514616
Dissolved Thallium (Tl)	ug/L	0.8	-	0.122	0.126	9514616	0.0577	0.0111	0.0020	9514616
Dissolved Tin (Sn)	ug/L	-	-	<0.20	<0.20	9514616	<0.20	<0.20	0.20	9514616
Dissolved Titanium (Ti)	ug/L	-	-	<0.50	<0.50	9514616	<0.50	<0.50	0.50	9514616
Dissolved Uranium (U)	ug/L	15	-	1.03	1.04	9514616	3.19	3.81	0.0020	9514616
Dissolved Vanadium (V)	ug/L	-	-	0.21	<0.20	9519381	0.34	0.76	0.20	9514616
Dissolved Zinc (Zn)	ug/L	30	-	167	166	9514616	0.57	5.14	0.10	9514616

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels
RDL = Reportable Detection Limit	
(1) Matrix Spike for P outside acceptance criteria (10% of analytes failure allowed).	



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9976	WC9977		WC9978	WC9979		
Sampling Date				2019/07/15 09:30	2019/07/15 10:50		2019/07/15 10:45	2019/07/15 11:50		
COC Number				562476-02-01	562476-02-01		562476-02-01	562476-02-01		
	UNITS	FW	MAR	BC-51W	DUP	QC Batch	BC-15	BC-04	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	-	-	<0.10	<0.10	9514616	<0.10	<0.10	0.10	9514616
Dissolved Calcium (Ca)	mg/L	-	-	33.7	33.6	9512590	111	87.8	0.050	9512590
Dissolved Magnesium (Mg)	mg/L	-	-	16.8	16.9	9512590	53.8	37.0	0.050	9512590
Dissolved Potassium (K)	mg/L	-	-	2.69	2.61	9512590	1.10	1.49	0.050	9512590
Dissolved Sodium (Na)	mg/L	-	-	0.616	0.621	9512590	0.451	2.35	0.050	9512590
Dissolved Sulphur (S)	mg/L	-	-	59.1	59.0	9512590	127	72.5	3.0	9512590

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit



LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9980			WC9981		
Sampling Date				2019/07/15 11:30			2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-10	RDL	QC Batch	BC-28	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	-	-	163	0.50	9512265	442	0.50	9512265
Elements									
Dissolved Mercury (Hg)	ug/L	0.026	0.016	0.0030	0.0020	9520616	<0.0020	0.0020	9514834
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	-	-	2.43	0.50	9514616	319	2.5	9514616
Dissolved Antimony (Sb)	ug/L	-	-	80.8	0.020	9514616	678	0.10	9514616
Dissolved Arsenic (As)	ug/L	5	12.5	13.5	0.020	9514616	15.4	0.10	9514616
Dissolved Barium (Ba)	ug/L	-	-	98.0	0.020	9514616	72.1	0.10	9514616
Dissolved Beryllium (Be)	ug/L	-	-	<0.010	0.010	9514616	<0.050	0.050	9514616
Dissolved Bismuth (Bi)	ug/L	-	-	<0.0050	0.0050	9514616	<0.025	0.025	9514616
Dissolved Boron (B)	ug/L	1500	-	<10	10	9514616	<50	50	9514616
Dissolved Cadmium (Cd)	ug/L	-	0.12	0.0250	0.0050	9514616	0.037	0.025	9514616
Dissolved Chromium (Cr)	ug/L	-	-	<0.10	0.10	9514616	<0.50	0.50	9514616
Dissolved Cobalt (Co)	ug/L	-	-	0.0450	0.0050	9514616	77.3	0.025	9514616
Dissolved Copper (Cu)	ug/L	-	-	0.588	0.050	9514616	2.67	0.25	9519381
Dissolved Iron (Fe)	ug/L	300	-	19.3	1.0	9514616	8.6	5.0	9514616
Dissolved Lead (Pb)	ug/L	-	-	0.0286	0.0050	9514616	<0.025	0.025	9514616
Dissolved Lithium (Li)	ug/L	-	-	2.43	0.50	9514616	<2.5	2.5	9514616
Dissolved Manganese (Mn)	ug/L	-	-	2.92	0.050	9514616	31.5	0.25	9514616
Dissolved Molybdenum (Mo)	ug/L	73	-	3.52	0.050	9514616	9.20	0.25	9514616
Dissolved Nickel (Ni)	ug/L	-	-	0.628	0.020	9514616	1.40	0.10	9519381
Dissolved Phosphorus (P)	ug/L	-	-	6.3	2.0	9514616	16	10	9514616
Dissolved Selenium (Se)	ug/L	1	-	3.81	0.040	9514616	64.5	0.20	9514616
Dissolved Silicon (Si)	ug/L	-	-	1890	50	9514616	927	250	9514616
Dissolved Silver (Ag)	ug/L	0.25	7.5	<0.0050	0.0050	9514616	<0.025	0.025	9514616
Dissolved Strontium (Sr)	ug/L	-	-	331	0.050	9514616	699	0.25	9514616
Dissolved Thallium (Tl)	ug/L	0.8	-	0.0660	0.0020	9514616	0.037	0.010	9514616
Dissolved Tin (Sn)	ug/L	-	-	<0.20	0.20	9514616	<1.0	1.0	9514616
Dissolved Titanium (Ti)	ug/L	-	-	<0.50	0.50	9514616	<2.5	2.5	9514616
Dissolved Uranium (U)	ug/L	15	-	5.22	0.0020	9514616	6.70	0.010	9514616
Dissolved Vanadium (V)	ug/L	-	-	0.50	0.20	9514616	1.8	1.0	9514616
Dissolved Zinc (Zn)	ug/L	30	-	0.32	0.10	9514616	4.87	0.50	9519381
Dissolved Zirconium (Zr)	ug/L	-	-	<0.10	0.10	9514616	<0.50	0.50	9514616
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9980			WC9981		
Sampling Date				2019/07/15 11:30			2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-10	RDL	QC Batch	BC-28	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	-	-	39.3	0.050	9512590	114	0.25	9512590
Dissolved Magnesium (Mg)	mg/L	-	-	15.7	0.050	9512590	38.0	0.25	9512590
Dissolved Potassium (K)	mg/L	-	-	1.94	0.050	9512590	4.45	0.25	9512590
Dissolved Sodium (Na)	mg/L	-	-	0.530	0.050	9512590	187	0.25	9512590
Dissolved Sulphur (S)	mg/L	-	-	22.3	3.0	9512590	149	15	9512590
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9982				WC9983		
Sampling Date				2019/07/15 13:20				2019/07/15 14:00		
COC Number				562476-02-01				562476-02-01		
	UNITS	FW	MAR	BC-28B	QC Batch	BC-289	RDL	QC Batch		
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	-	-	1230	9512265	992	0.50	9512265		
Elements										
Dissolved Mercury (Hg)	ug/L	0.026	0.016	0.0342	9514822	0.0083	0.0020	9520616		
Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	-	-	9.9	9514616	104	5.0	9514616		
Dissolved Antimony (Sb)	ug/L	-	-	1970	9514616	1690	0.20	9514616		
Dissolved Arsenic (As)	ug/L	5	12.5	280	9514616	171	0.20	9514616		
Dissolved Barium (Ba)	ug/L	-	-	38.4	9514616	30.0	0.20	9514616		
Dissolved Beryllium (Be)	ug/L	-	-	<0.10	9514616	<0.10	0.10	9514616		
Dissolved Bismuth (Bi)	ug/L	-	-	<0.050	9514616	<0.050	0.050	9514616		
Dissolved Boron (B)	ug/L	1500	-	<100	9514616	<100	100	9514616		
Dissolved Cadmium (Cd)	ug/L	-	0.12	0.304	9514616	<0.050	0.050	9514616		
Dissolved Chromium (Cr)	ug/L	-	-	<1.0	9514616	<1.0	1.0	9514616		
Dissolved Cobalt (Co)	ug/L	-	-	591	9514616	392	0.050	9514616		
Dissolved Copper (Cu)	ug/L	-	-	7.20 (1)	9519381	2.32	0.50	9514616		
Dissolved Iron (Fe)	ug/L	300	-	175	9514616	<10	10	9514616		
Dissolved Lead (Pb)	ug/L	-	-	<0.050	9514616	<0.050	0.050	9514616		
Dissolved Lithium (Li)	ug/L	-	-	<5.0	9514616	<5.0	5.0	9514616		
Dissolved Manganese (Mn)	ug/L	-	-	18.3	9514616	5.54	0.50	9514616		
Dissolved Molybdenum (Mo)	ug/L	73	-	16.2	9514616	17.8	0.50	9514616		
Dissolved Nickel (Ni)	ug/L	-	-	8.29	9514616	6.17	0.20	9514616		
Dissolved Phosphorus (P)	ug/L	-	-	65	9514616	25	20	9514616		
Dissolved Selenium (Se)	ug/L	1	-	169	9514616	126	0.40	9514616		
Dissolved Silicon (Si)	ug/L	-	-	4360	9514616	628	500	9514616		
Dissolved Silver (Ag)	ug/L	0.25	7.5	<0.050	9514616	<0.050	0.050	9514616		
Dissolved Strontium (Sr)	ug/L	-	-	1780	9514616	1480	0.50	9514616		
Dissolved Thallium (Tl)	ug/L	0.8	-	0.279	9514616	0.204	0.020	9514616		
Dissolved Tin (Sn)	ug/L	-	-	<2.0	9514616	<2.0	2.0	9514616		
Dissolved Titanium (Ti)	ug/L	-	-	<5.0	9514616	<5.0	5.0	9514616		
Dissolved Uranium (U)	ug/L	15	-	22.7	9514616	18.9	0.020	9514616		
Dissolved Vanadium (V)	ug/L	-	-	<2.0	9514616	<2.0	2.0	9514616		
Dissolved Zinc (Zn)	ug/L	30	-	26.4	9514616	16.2	1.0	9514616		
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
(1) Dissolved greater than total. Reanalysis yields similar results.										



LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID				WC9982		WC9983		
Sampling Date				2019/07/15 13:20		2019/07/15 14:00		
COC Number				562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-28B	QC Batch	BC-289	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	-	-	<1.0	9514616	<1.0	1.0	9514616
Dissolved Calcium (Ca)	mg/L	-	-	351	9512590	270	0.50	9512590
Dissolved Magnesium (Mg)	mg/L	-	-	84.7	9512590	77.4	0.50	9512590
Dissolved Potassium (K)	mg/L	-	-	5.28	9512590	4.84	0.50	9512590
Dissolved Sodium (Na)	mg/L	-	-	414	9512590	332	0.50	9512590
Dissolved Sulphur (S)	mg/L	-	-	314	9512590	292	30	9512590
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								



LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9976	WC9977			WC9978		
Sampling Date				2019/07/15 09:30	2019/07/15 10:50			2019/07/15 10:45		
COC Number				562476-02-01	562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-51W	DUP	RDL	QC Batch	BC-15	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	-	-	157	156	0.50	9512264	517	0.50	9512264
Elements										
Total Mercury (Hg)	ug/L	0.026	0.016	0.0065	0.0069	0.0020	9519354	0.0060	0.0020	9519354
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	-	-	1880	1840	0.50	9514082			
Total Antimony (Sb)	ug/L	-	-	1.73	1.69	0.020	9514082			
Total Arsenic (As)	ug/L	5	12.5	7.07	6.72	0.020	9514082			
Total Barium (Ba)	ug/L	-	-	34.1	33.7	0.020	9514082			
Total Beryllium (Be)	ug/L	-	-	4.88	4.97	0.010	9514082			
Total Bismuth (Bi)	ug/L	-	-	<0.0050	<0.0050	0.0050	9514082			
Total Boron (B)	ug/L	1500	-	<10	<10	10	9514082			
Total Cadmium (Cd)	ug/L	-	0.12	1.88	1.87	0.0050	9514082			
Total Chromium (Cr)	ug/L	-	-	0.26	0.26	0.10	9514082			
Total Cobalt (Co)	ug/L	-	-	20.8	20.9	0.0050	9514082			
Total Copper (Cu)	ug/L	-	-	94.9	97.4	0.050	9514082			
Total Iron (Fe)	ug/L	300	-	552	553	1.0	9514082			
Total Lead (Pb)	ug/L	-	-	0.105	0.101	0.0050	9514082			
Total Lithium (Li)	ug/L	-	-	5.64	5.48	0.50	9514082			
Total Manganese (Mn)	ug/L	-	-	1060	1060	0.050	9514082			
Total Molybdenum (Mo)	ug/L	73	-	0.097	<0.050	0.050	9514082			
Total Nickel (Ni)	ug/L	-	-	69.7	69.7	0.020	9514082			
Total Phosphorus (P)	ug/L	-	-	13.3	9.7	2.0	9514082			
Total Selenium (Se)	ug/L	1	-	3.79	3.61	0.040	9514082			
Total Silicon (Si)	ug/L	-	-	6760	6460	50	9514082			
Total Silver (Ag)	ug/L	0.25	7.5	0.118	0.0470	0.0050	9514082			
Total Strontium (Sr)	ug/L	-	-	238	230	0.050	9514082			
Total Thallium (Tl)	ug/L	0.8	-	0.118	0.118	0.0020	9514082			
Total Tin (Sn)	ug/L	-	-	<0.20	<0.20	0.20	9514082			
Total Titanium (Ti)	ug/L	-	-	0.62	<0.50	0.50	9514082			
Total Uranium (U)	ug/L	15	-	1.21	1.17	0.0020	9514082			
Total Vanadium (V)	ug/L	-	-	<0.20	<0.20	0.20	9514082			
Total Zinc (Zn)	ug/L	30	-	173	173	0.10	9514082			
Total Zirconium (Zr)	ug/L	-	-	<0.10	<0.10	0.10	9514082			
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9976	WC9977			WC9978		
Sampling Date				2019/07/15 09:30	2019/07/15 10:50			2019/07/15 10:45		
COC Number				562476-02-01	562476-02-01			562476-02-01		
	UNITS	FW	MAR	BC-51W	DUP	RDL	QC Batch	BC-15	RDL	QC Batch
Total Calcium (Ca)	mg/L	-	-	34.5	34.1	0.050	9513024	115	0.25	9513024
Total Magnesium (Mg)	mg/L	-	-	17.2	17.3	0.050	9513024	55.9	0.25	9513024
Total Potassium (K)	mg/L	-	-	2.60	2.56	0.050	9513024	1.02	0.25	9513024
Total Sodium (Na)	mg/L	-	-	0.593	0.600	0.050	9513024	0.47	0.25	9513024
Total Sulphur (S)	mg/L	-	-	60.2	57.6	3.0	9513024	132	3.0	9513024
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9979			WC9980		WC9981		
Sampling Date				2019/07/15 11:50			2019/07/15 11:30		2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-04	RDL	QC Batch	BC-10	RDL	BC-28	RDL	QC Batch
Calculated Parameters											
Total Hardness (CaCO3)	mg/L	-	-	405	0.50	9512264	165	0.50	451	0.50	9512264
Elements											
Total Mercury (Hg)	ug/L	0.026	0.016	<0.0020	0.0020	9519354	0.0063	0.0020	0.0031	0.0020	9519354
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	-	-	22.7	0.50	9514082					
Total Antimony (Sb)	ug/L	-	-	2.72	0.020	9514082					
Total Arsenic (As)	ug/L	5	12.5	6.75	0.020	9514082					
Total Barium (Ba)	ug/L	-	-	69.4	0.020	9514082					
Total Beryllium (Be)	ug/L	-	-	<0.010	0.010	9514082					
Total Bismuth (Bi)	ug/L	-	-	<0.0050	0.0050	9514082					
Total Boron (B)	ug/L	1500	-	<10	10	9514082					
Total Cadmium (Cd)	ug/L	-	0.12	0.127	0.0050	9514082					
Total Chromium (Cr)	ug/L	-	-	0.13	0.10	9514082					
Total Cobalt (Co)	ug/L	-	-	0.507	0.0050	9514082					
Total Copper (Cu)	ug/L	-	-	0.417	0.050	9514082					
Total Iron (Fe)	ug/L	300	-	542	1.0	9514082					
Total Lead (Pb)	ug/L	-	-	0.0586	0.0050	9514082					
Total Lithium (Li)	ug/L	-	-	10.1	0.50	9514082					
Total Manganese (Mn)	ug/L	-	-	122	0.050	9514082					
Total Molybdenum (Mo)	ug/L	73	-	3.51	0.050	9514082					
Total Nickel (Ni)	ug/L	-	-	3.84	0.020	9514082					
Total Phosphorus (P)	ug/L	-	-	11.2	2.0	9514082					
Total Selenium (Se)	ug/L	1	-	3.97	0.040	9514082					
Total Silicon (Si)	ug/L	-	-	3490	50	9514082					
Total Silver (Ag)	ug/L	0.25	7.5	<0.0050	0.0050	9514082					
Total Strontium (Sr)	ug/L	-	-	604	0.050	9514082					
Total Thallium (Tl)	ug/L	0.8	-	0.0144	0.0020	9514082					
Total Tin (Sn)	ug/L	-	-	<0.20	0.20	9514082					
Total Titanium (Ti)	ug/L	-	-	0.73	0.50	9514082					
Total Uranium (U)	ug/L	15	-	4.12	0.0020	9514082					
Total Vanadium (V)	ug/L	-	-	1.00	0.20	9514082					
Total Zinc (Zn)	ug/L	30	-	7.55	0.10	9514082					
Total Zirconium (Zr)	ug/L	-	-	<0.10	0.10	9514082					
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9979			WC9980		WC9981		
Sampling Date				2019/07/15 11:50			2019/07/15 11:30		2019/07/15 13:00		
COC Number				562476-02-01			562476-02-01		562476-02-01		
	UNITS	FW	MAR	BC-04	RDL	QC Batch	BC-10	RDL	BC-28	RDL	QC Batch
Total Calcium (Ca)	mg/L	-	-	96.3	0.050	9513024	39.9	0.25	115	1.3	9513024
Total Magnesium (Mg)	mg/L	-	-	40.0	0.050	9513024	15.9	0.25	39.6	1.3	9513024
Total Potassium (K)	mg/L	-	-	1.52	0.050	9513024	1.85	0.25	4.0	1.3	9513024
Total Sodium (Na)	mg/L	-	-	2.57	0.050	9513024	0.52	0.25	197	1.3	9513024
Total Sulphur (S)	mg/L	-	-	75.8	3.0	9513024	22.4	3.0	149	15	9513024
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											



LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9982	WC9983		
Sampling Date				2019/07/15 13:20	2019/07/15 14:00		
COC Number				562476-02-01	562476-02-01		
	UNITS	FW	MAR	BC-28B	BC-289	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	-	-	1300	1070	0.50	9512264
Elements							
Total Mercury (Hg)	ug/L	0.026	0.016	0.0371	0.0104	0.0020	9519354
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	-	-	11.6	132	5.0	9514082
Total Antimony (Sb)	ug/L	-	-	2070	1830	0.20	9514082
Total Arsenic (As)	ug/L	5	12.5	278	174	0.20	9514082
Total Barium (Ba)	ug/L	-	-	39.4	32.9	0.20	9514082
Total Beryllium (Be)	ug/L	-	-	<0.10	<0.10	0.10	9514082
Total Bismuth (Bi)	ug/L	-	-	<0.050	<0.050	0.050	9514082
Total Boron (B)	ug/L	1500	-	<100	<100	100	9514082
Total Cadmium (Cd)	ug/L	-	0.12	0.358	<0.050	0.050	9514082
Total Chromium (Cr)	ug/L	-	-	<1.0	<1.0	1.0	9514082
Total Cobalt (Co)	ug/L	-	-	553	418	0.050	9514082
Total Copper (Cu)	ug/L	-	-	1.65	3.09	0.50	9514082
Total Iron (Fe)	ug/L	300	-	132	34	10	9514082
Total Lead (Pb)	ug/L	-	-	<0.050	0.057	0.050	9514082
Total Lithium (Li)	ug/L	-	-	<5.0	<5.0	5.0	9514082
Total Manganese (Mn)	ug/L	-	-	18.7	14.6	0.50	9514082
Total Molybdenum (Mo)	ug/L	73	-	16.2	17.7	0.50	9514082
Total Nickel (Ni)	ug/L	-	-	9.43	6.66	0.20	9514082
Total Phosphorus (P)	ug/L	-	-	48	<20	20	9514082
Total Selenium (Se)	ug/L	1	-	171	134	0.40	9514082
Total Silicon (Si)	ug/L	-	-	4180	681	500	9514082
Total Silver (Ag)	ug/L	0.25	7.5	<0.050	<0.050	0.050	9514082
Total Strontium (Sr)	ug/L	-	-	1720	1450	0.50	9514082
Total Thallium (Tl)	ug/L	0.8	-	0.270	0.201	0.020	9514082
Total Tin (Sn)	ug/L	-	-	<2.0	<2.0	2.0	9514082
Total Titanium (Ti)	ug/L	-	-	<5.0	<5.0	5.0	9514082
Total Uranium (U)	ug/L	15	-	23.9	20.0	0.020	9514082
Total Vanadium (V)	ug/L	-	-	<2.0	<2.0	2.0	9514082
Total Zinc (Zn)	ug/L	30	-	25.2	13.1	1.0	9514082
Total Zirconium (Zr)	ug/L	-	-	<1.0	<1.0	1.0	9514082
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							



LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID				WC9982	WC9983		
Sampling Date				2019/07/15 13:20	2019/07/15 14:00		
COC Number				562476-02-01	562476-02-01		
	UNITS	FW	MAR	BC-28B	BC-289	RDL	QC Batch
Total Calcium (Ca)	mg/L	-	-	377	294	0.50	9513024
Total Magnesium (Mg)	mg/L	-	-	86.2	81.1	0.50	9513024
Total Potassium (K)	mg/L	-	-	5.03	4.65	0.50	9513024
Total Sodium (Na)	mg/L	-	-	427	353	0.50	9513024
Total Sulphur (S)	mg/L	-	-	312	296	30	9513024
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.7°C
-----------	-------

Sample WC9976 [BC-51W] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9977 [DUP] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9978 [BC-15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9979 [BC-04] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9980 [BC-10] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9981 [BC-28] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Orthophosphate by Konelab.

Sample WC9982 [BC-28B] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Turbidity. Orthophosphate is greater than total Phosphorus; reanalysis yields similar results.

Sample WC9983 [BC-289] : Orthophosphate is greater than total Phosphorus; reanalysis yields similar result. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Orthophosphate by Konelab. Sample was analyzed past method specified hold time for Turbidity.

FW,MAR: Canadian Environmental Quality Guidelines for the Protection of Aquatic Life (CCME)

Cadmium Guideline (Freshwater): A) 0.04 ug/L when hardness is 0-17 mg/L, B) 0.37 ug/L if hardness > 280 mg/L C) = 10 to the power of {0.86[log (hardness)]-2.46} when hardness is 17-280 mg/L.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

Sample WC9981 [BC-28] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER) Comments

Sample WC9981 [BC-28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample WC9981 [BC-28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample WC9982 [BC-28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample WC9982 [BC-28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample WC9983 [BC-289] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.



BV Labs Job #: B958334
Report Date: 2019/07/31

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

LOW LEVEL TOTAL METALS WITH CV HG (WATER) Comments

Sample WC9982 [BC-28B] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WC9983 [BC-289] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WC9976, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample WC9977, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample WC9981, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample WC9982, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

QUALITY ASSURANCE REPORT

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9514082	Total Aluminum (Al)	2019/07/19	96	80 - 120	99	80 - 120	<0.50	ug/L	18	20		
9514082	Total Antimony (Sb)	2019/07/19	102	80 - 120	101	80 - 120	<0.020	ug/L	2.1	20		
9514082	Total Arsenic (As)	2019/07/19	105	80 - 120	101	80 - 120	<0.020	ug/L	2.0	20		
9514082	Total Barium (Ba)	2019/07/19	NC	80 - 120	99	80 - 120	<0.020	ug/L	0.68	20		
9514082	Total Beryllium (Be)	2019/07/19	103	80 - 120	101	80 - 120	<0.010	ug/L	NC	20		
9514082	Total Bismuth (Bi)	2019/07/19	104	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20		
9514082	Total Boron (B)	2019/07/19	101	80 - 120	99	80 - 120	<10	ug/L	NC	20		
9514082	Total Cadmium (Cd)	2019/07/19	103	80 - 120	102	80 - 120	<0.0050	ug/L	14	20		
9514082	Total Chromium (Cr)	2019/07/19	99	80 - 120	98	80 - 120	<0.10	ug/L	5.5	20		
9514082	Total Cobalt (Co)	2019/07/19	98	80 - 120	97	80 - 120	<0.0050	ug/L	1.1	20		
9514082	Total Copper (Cu)	2019/07/19	97	80 - 120	96	80 - 120	<0.050	ug/L	4.3	20		
9514082	Total Iron (Fe)	2019/07/19	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.10	20		
9514082	Total Lead (Pb)	2019/07/19	106	80 - 120	102	80 - 120	<0.0050	ug/L	3.7	20		
9514082	Total Lithium (Li)	2019/07/19	97	80 - 120	98	80 - 120	<0.50	ug/L	0.20	20		
9514082	Total Manganese (Mn)	2019/07/19	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.49	20		
9514082	Total Molybdenum (Mo)	2019/07/19	106	80 - 120	98	80 - 120	<0.050	ug/L	1.3	20		
9514082	Total Nickel (Ni)	2019/07/19	99	80 - 120	100	80 - 120	<0.020	ug/L	1.2	20		
9514082	Total Phosphorus (P)	2019/07/19	104	80 - 120	101	80 - 120	<2.0	ug/L	6.2	20		
9514082	Total Selenium (Se)	2019/07/19	108	80 - 120	103	80 - 120	<0.040	ug/L	3.7	20		
9514082	Total Silicon (Si)	2019/07/19	96	80 - 120	101	80 - 120	<50	ug/L	2.1	20		
9514082	Total Silver (Ag)	2019/07/19	102	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20		
9514082	Total Strontium (Sr)	2019/07/19	NC	80 - 120	95	80 - 120	<0.050	ug/L	0.076	20		
9514082	Total Thallium (Tl)	2019/07/19	104	80 - 120	99	80 - 120	<0.0020	ug/L	1.3	20		
9514082	Total Tin (Sn)	2019/07/19	105	80 - 120	101	80 - 120	<0.20	ug/L	NC	20		
9514082	Total Titanium (Ti)	2019/07/19	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
9514082	Total Uranium (U)	2019/07/19	105	80 - 120	99	80 - 120	<0.0020	ug/L	1.2	20		
9514082	Total Vanadium (V)	2019/07/19	101	80 - 120	98	80 - 120	<0.20	ug/L	7.8	20		
9514082	Total Zinc (Zn)	2019/07/19	NC	80 - 120	102	80 - 120	<0.10	ug/L	0.33	20		
9514082	Total Zirconium (Zr)	2019/07/19	102	80 - 120	99	80 - 120	<0.10	ug/L	NC	20		
9514616	Dissolved Aluminum (Al)	2019/07/19	NC	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
9514616	Dissolved Antimony (Sb)	2019/07/19	96	80 - 120	98	80 - 120	<0.020	ug/L	NC	20		
9514616	Dissolved Arsenic (As)	2019/07/19	98	80 - 120	100	80 - 120	<0.020	ug/L	NC	20		
9514616	Dissolved Barium (Ba)	2019/07/19	97	80 - 120	97	80 - 120	<0.020	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: B958334
Report Date: 2019/07/31

QUALITY ASSURANCE REPORT(CONT'D)

GOLDEN PREDATOR MINING CORP.
Client Project #: Surface Water

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9514616	Dissolved Beryllium (Be)	2019/07/19	93	80 - 120	97	80 - 120	<0.010	ug/L	NC	20		
9514616	Dissolved Bismuth (Bi)	2019/07/19	95	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20		
9514616	Dissolved Boron (B)	2019/07/19	95	80 - 120	96	80 - 120	<10	ug/L	NC	20		
9514616	Dissolved Cadmium (Cd)	2019/07/19	96	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20		
9514616	Dissolved Chromium (Cr)	2019/07/19	90	80 - 120	93	80 - 120	<0.10	ug/L	NC	20		
9514616	Dissolved Cobalt (Co)	2019/07/19	93	80 - 120	93	80 - 120	<0.0050	ug/L	NC	20		
9514616	Dissolved Copper (Cu)	2019/07/19	NC	80 - 120	92	80 - 120	<0.050	ug/L	NC	20		
9514616	Dissolved Iron (Fe)	2019/07/19	NC	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
9514616	Dissolved Lead (Pb)	2019/07/19	98	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20		
9514616	Dissolved Lithium (Li)	2019/07/19	93	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
9514616	Dissolved Manganese (Mn)	2019/07/19	NC	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
9514616	Dissolved Molybdenum (Mo)	2019/07/19	100	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
9514616	Dissolved Nickel (Ni)	2019/07/19	NC	80 - 120	94	80 - 120	<0.020	ug/L	NC	20		
9514616	Dissolved Phosphorus (P)	2019/07/19	129 (1)	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
9514616	Dissolved Selenium (Se)	2019/07/19	97	80 - 120	97	80 - 120	<0.040	ug/L	NC	20		
9514616	Dissolved Silicon (Si)	2019/07/19	NC	80 - 120	102	80 - 120	<50	ug/L	NC	20		
9514616	Dissolved Silver (Ag)	2019/07/19	95	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20		
9514616	Dissolved Strontium (Sr)	2019/07/19	NC	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
9514616	Dissolved Thallium (Tl)	2019/07/19	97	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20		
9514616	Dissolved Tin (Sn)	2019/07/19	97	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
9514616	Dissolved Titanium (Ti)	2019/07/19	96	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
9514616	Dissolved Uranium (U)	2019/07/19	94	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20		
9514616	Dissolved Vanadium (V)	2019/07/19	92	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
9514616	Dissolved Zinc (Zn)	2019/07/19	NC	80 - 120	97	80 - 120	<0.10	ug/L	NC	20		
9514616	Dissolved Zirconium (Zr)	2019/07/19	100	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
9514743	Nitrate plus Nitrite (N)	2019/07/19	108	80 - 120	104	80 - 120	<0.020	mg/L	3.2	25		
9514746	Nitrite (N)	2019/07/19	98	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
9514748	Nitrate plus Nitrite (N)	2019/07/19	NC	80 - 120	104	80 - 120	<0.020	mg/L	0.83	25		
9514749	Nitrite (N)	2019/07/19	88	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
9514822	Dissolved Mercury (Hg)	2019/07/19	87	80 - 120	94	80 - 120	<0.0020	ug/L	2.1	20		
9514834	Dissolved Mercury (Hg)	2019/07/24	96	80 - 120	111	80 - 120	<0.0020	ug/L	NC	20		
9515146	pH	2019/07/19			102	97 - 103			0.27	20		
9515149	Total Ammonia (N)	2019/07/23	88	80 - 120	106	80 - 120	<0.0050	mg/L	11	20		



BUREAU
VERITAS

BV Labs Job #: B958334

Report Date: 2019/07/31

QUALITY ASSURANCE REPORT(CONT'D)

GOLDEN PREDATOR MINING CORP.

Client Project #: Surface Water

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9515154	Conductivity	2019/07/19			101	80 - 120	<1.0	uS/cm	0.23	20		
9515159	Alkalinity (PP as CaCO3)	2019/07/19					<0.50	mg/L	NC	20		
9515159	Alkalinity (Total as CaCO3)	2019/07/19	NC	80 - 120	100	80 - 120	<0.50	mg/L	NC	20		
9515159	Bicarbonate (HCO3)	2019/07/19					<0.50	mg/L	NC	20		
9515159	Carbonate (CO3)	2019/07/19					<0.50	mg/L	NC	20		
9515159	Hydroxide (OH)	2019/07/19					<0.50	mg/L	NC	20		
9515261	Turbidity	2019/07/19			102	80 - 120	<0.10	NTU	3.4	20		
9515270	Turbidity	2019/07/19			100	80 - 120	<0.10	NTU				
9515411	Acidity (pH 4.5)	2019/07/20					<1.0	mg/L	NC	20		
9515411	Acidity (pH 8.3)	2019/07/20			109	80 - 120	<1.0	mg/L	63 (1)	20		
9515412	Acidity (pH 4.5)	2019/07/20					<1.0	mg/L				
9515412	Acidity (pH 8.3)	2019/07/20			101	80 - 120	<1.0	mg/L				
9515776	Total Aluminum (Al)	2019/07/23	NC	80 - 120	103	80 - 120	<3.0	ug/L	11	20		
9515776	Total Antimony (Sb)	2019/07/23	104	80 - 120	103	80 - 120	<0.020	ug/L	1.9	20		
9515776	Total Arsenic (As)	2019/07/23	106	80 - 120	106	80 - 120	<0.020	ug/L	3.4	20		
9515776	Total Barium (Ba)	2019/07/23	NC	80 - 120	102	80 - 120	<0.050	ug/L	1.0	20		
9515776	Total Beryllium (Be)	2019/07/23	100	80 - 120	107	80 - 120	<0.010	ug/L	4.4	20		
9515776	Total Bismuth (Bi)	2019/07/23	97	80 - 120	103	80 - 120	<0.010	ug/L	NC	20		
9515776	Total Boron (B)	2019/07/23	NC	80 - 120	99	80 - 120	<10	ug/L	0.12	20		
9515776	Total Cadmium (Cd)	2019/07/23	95	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20		
9515776	Total Chromium (Cr)	2019/07/23	99	80 - 120	97	80 - 120	<0.10	ug/L	3.5	20		
9515776	Total Cobalt (Co)	2019/07/23	88	80 - 120	95	80 - 120	<0.010	ug/L	12	20		
9515776	Total Copper (Cu)	2019/07/23	85	80 - 120	95	80 - 120	<0.10	ug/L	20	20		
9515776	Total Iron (Fe)	2019/07/23	NC	80 - 120	101	80 - 120	<5.0	ug/L	3.1	20		
9515776	Total Lead (Pb)	2019/07/23	100	80 - 120	102	80 - 120	<0.020	ug/L	14	20		
9515776	Total Lithium (Li)	2019/07/23	NC	80 - 120	109	80 - 120	<0.50	ug/L	1.9	20		
9515776	Total Manganese (Mn)	2019/07/23	NC	80 - 120	100	80 - 120	<0.10	ug/L	2.6	20		
9515776	Total Molybdenum (Mo)	2019/07/23	NC	80 - 120	83	80 - 120	<0.050	ug/L	1.9	20		
9515776	Total Nickel (Ni)	2019/07/23	88	80 - 120	97	80 - 120	<0.10	ug/L	3.8	20		
9515776	Total Phosphorus (P)	2019/07/23	103	80 - 120	106	80 - 120	<5.0	ug/L				
9515776	Total Selenium (Se)	2019/07/23	94	80 - 120	106	80 - 120	<0.040	ug/L	1.7	20		
9515776	Total Silicon (Si)	2019/07/23	NC	80 - 120	106	80 - 120	<50	ug/L	5.0	20		
9515776	Total Silver (Ag)	2019/07/23	97	80 - 120	92	80 - 120	<0.010	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: B958334

Report Date: 2019/07/31

QUALITY ASSURANCE REPORT(CONT'D)

GOLDEN PREDATOR MINING CORP.

Client Project #: Surface Water

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9515776	Total Strontium (Sr)	2019/07/23	NC	80 - 120	104	80 - 120	<0.050	ug/L	1.7	20		
9515776	Total Sulphur (S)	2019/07/23	NC	80 - 120	109	80 - 120	<600	ug/L				
9515776	Total Thallium (Tl)	2019/07/23	104	80 - 120	95	80 - 120	<0.0020	ug/L	11	20		
9515776	Total Tin (Sn)	2019/07/23	98	80 - 120	101	80 - 120	<0.20	ug/L	NC	20		
9515776	Total Titanium (Ti)	2019/07/23	114	80 - 120	99	80 - 120	<2.0	ug/L	15	20		
9515776	Total Uranium (U)	2019/07/23	107	80 - 120	95	80 - 120	<0.0050	ug/L	3.1	20		
9515776	Total Vanadium (V)	2019/07/23	102	80 - 120	96	80 - 120	<0.20	ug/L	5.0	20		
9515776	Total Zinc (Zn)	2019/07/23	90	80 - 120	110	80 - 120	<1.0	ug/L	11	20		
9515776	Total Zirconium (Zr)	2019/07/23	NC	80 - 120	102	80 - 120	<0.10	ug/L	1.4	20		
9515910	Dissolved Chloride (Cl)	2019/07/19	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.099	20		
9515911	Dissolved Sulphate (SO4)	2019/07/19			98	80 - 120	<0.50	mg/L				
9516253	Orthophosphate (P)	2019/07/20	96	80 - 120	108	80 - 120	<0.0050	mg/L	NC	20		
9516254	Orthophosphate (P)	2019/07/20	102	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
9516328	Total Dissolved Solids	2019/07/21	89	80 - 120	108	80 - 120	<1.0	mg/L	4.5	20		
9516617	Total Suspended Solids	2019/07/22	93	80 - 120	96	80 - 120	<1.0	mg/L	NC	20		
9517429	Total Ammonia (N)	2019/07/23	82	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20		
9518771	Total Nitrogen (N)	2019/07/23	66 (1)	80 - 120	94	80 - 120	<0.020	mg/L	3.3	20		
9518773	Total Nitrogen (N)	2019/07/23	93	80 - 120	100	80 - 120	<0.020	mg/L	11	20		
9519354	Total Mercury (Hg)	2019/07/24	98	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20		
9519381	Dissolved Copper (Cu)	2019/07/23			102	80 - 120	<0.050	ug/L				
9519381	Dissolved Nickel (Ni)	2019/07/23			99	80 - 120	<0.020	ug/L				
9519381	Dissolved Vanadium (V)	2019/07/23			100	80 - 120	<0.20	ug/L				
9519381	Dissolved Zinc (Zn)	2019/07/23			101	80 - 120	<0.10	ug/L				
9519639	Orthophosphate (P)	2019/07/23			99	80 - 120	<0.0050	mg/L				
9519946	Dissolved Organic Carbon (C)	2019/07/24	97	80 - 120	102	80 - 120	<0.50	mg/L	4.9	20		
9519991	Total Organic Carbon (C)	2019/07/25	94	80 - 120	102	80 - 120	<0.50	mg/L	0.96	20		
9520039	Total Phosphorus (P)	2019/07/25	107	80 - 120	99	80 - 120	<0.0030	mg/L	0.98	20	92	80 - 120
9520616	Dissolved Mercury (Hg)	2019/07/24	106	80 - 120	107	80 - 120	<0.0020	ug/L	8.3	20		
9520761	Dissolved Sulphate (SO4)	2019/07/24	NC	80 - 120	98	80 - 120	0.67, RDL=0.50	mg/L	3.4	20		
9521874	Fluoride (F)	2019/07/25	NC	80 - 120	98	80 - 120	<0.010	mg/L	0	20		
9523616	Fluoride (F)	2019/07/26	112	80 - 120	96	80 - 120	<0.010	mg/L	6.7	20		
9523617	Total Phosphorus (P)	2019/07/26	99	80 - 120	90	80 - 120	<0.0030	mg/L	2.4	20	83	80 - 120



BUREAU
VERITAS

BV Labs Job #: B958334

Report Date: 2019/07/31

QUALITY ASSURANCE REPORT(CONT'D)

GOLDEN PREDATOR MINING CORP.

Client Project #: Surface Water

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9528105	Total Nitrogen (N)	2019/07/30	106	80 - 120	94	80 - 120	<0.020	mg/L	0.35	20		
9530181	Dissolved Chloride (Cl)	2019/07/31			103	80 - 120	<0.50	mg/L				
9530183	Dissolved Sulphate (SO4)	2019/07/31			101	80 - 120	<0.50	mg/L				

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7275 Toll-free 800-593-6266 Fax: (604) 731 2395 www.maxxam.ca

INVOICE TO:

Company Name: #10630 GOLDEN PREDATOR MINING CORP.
 Contact Name: Jillian Chown
 Address: 1 LINDEMAN ROAD
 WHITEHORSE YT Y1A 5Z7
 Phone: (867) 633-4653 Fax: (867) 633-3011
 Email: jchown@goldenpredator.com

Report Information

Company Name: _____
 Contact Name: Jillian Chown
 Address: _____
 Phone: (867) 456-4167 Fax: _____
 Email: chownjpc@gmail.com

Project Information

Quotation #: B71198
 P.O. #: _____
 Project #: Surface Water
 Project Name: _____
 Site #: _____
 Sampled By: _____



B958334_COC

Chain Of Custody Record

Barcode: C4502478-02-01
 Project Manager: Diana Cruz

Regulatory Criteria
 CCM E Aquatic life

Special Instructions

Analysis Requested

Regulated Drinking Water (Y/N)	Metals Field Filtered (Y/N)	Acidity, Alk-L, EC-LL, pH, Turbidity	Ammonia-N-LL (Preserved)	Anions Package (CLL, F-LL, NO2, NO3, PO4, SO4-LL)	Carbon (DOC) - Field filtered/preserved	Carbon (Total Organic)	LL-Dissolved Metals with CV Hg	LL Total Metals with CV Hg	Nitrogen, Total Kjeldahl (TKN)	Solids - TDS and Low Level TSS	Total Phosphorus
--------------------------------	-----------------------------	--------------------------------------	--------------------------	---	---	------------------------	--------------------------------	----------------------------	--------------------------------	--------------------------------	------------------

Turnaround Time (TAT) Required

Regular (Standard) TAT (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
 Job Specific Rush TAT (if applies to entire submission) _____
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water (Y/N)	Metals Field Filtered (Y/N)	Acidity, Alk-L, EC-LL, pH, Turbidity	Ammonia-N-LL (Preserved)	Anions Package (CLL, F-LL, NO2, NO3, PO4, SO4-LL)	Carbon (DOC) - Field filtered/preserved	Carbon (Total Organic)	LL-Dissolved Metals with CV Hg	LL Total Metals with CV Hg	Nitrogen, Total Kjeldahl (TKN)	Solids - TDS and Low Level TSS	Total Phosphorus	# of Bottles	Comments
✓ 1	BC-SIW	July 8 2019	09:30	SW	X	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
✓ 2	DUP		10:00	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
✓ 3	BC-15		10:45	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		RECEIVED IN WHITEHORSE BY: mduncan@CAOD
✓ 4	BC-04		11:50	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		2019-07-17
✓ 5	BC-10		11:30	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
✓ 6	BC-28		13:00	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		TEMP: 9/8/9
✓ 7	BC-28b		13:20	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
✓ 8	BC-28a		14:00	SW	Y	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9																		
10																		

RELINQUISHED BY: (Signature/Print) Jillian Chown Date: (YYMMDD) 19/07/16 Time: 07:07

RECEIVED BY: (Signature/Print) SPADSTUMOFF AKINTOLA Date: (YYMMDD) 20/07/18 Time: 8:15

Jars used and not submitted: _____

Temp Stable: Temperature (°C) on Receipt: 3.5/5 Custody Seal Intact on Cooler? Yes No

White: Maxxam Yellow: Client

5.5.6

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ICE! YES

794



Your Project #: SURFACE WATER
Your C.O.C. #: 588606-02-01

Attention: Jillian Chown

GOLDEN PREDATOR MINING CORP.
SUITE 250-200 BARRARD ST
VANCOUVER, BC
CANADA V6C 3L6

Report Date: 2019/09/12
Report #: R2780537
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B973051

Received: 2019/08/30, 12:50

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	9	N/A	2019/09/04	BBY6SOP-00026	SM 22 2320 B m
Low level chloride/sulphate by AC	9	N/A	2019/09/04	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Conductance - Low Level	9	N/A	2019/09/04	BBY6SOP-00026	SM 22 2510 B m
Hardness Total (calculated as CaCO3) (3)	2	N/A	2019/09/05	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	7	N/A	2019/09/06	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	9	N/A	2019/09/06	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	9	2019/09/04	2019/09/04	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	9	2019/09/04	2019/09/04	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	9	N/A	2019/09/06	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	9	N/A	2019/09/05	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	2	2019/09/03	2019/09/04	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2019/09/04	2019/09/05	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2019/09/05	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	7	N/A	2019/09/06	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	6	N/A	2019/09/05	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved) (1)	7	N/A	2019/09/06	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate+Nitrite (N) (low level)	9	N/A	2019/09/03	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	9	N/A	2019/09/03	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	9	N/A	2019/09/04	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	9	N/A	2019/08/31	BBY7 WI-00004	SM 23 3030B m
Total Suspended Solids (NFR)	6	2019/09/03	2019/09/04	BBY6SOP-00034	SM 23 2540 D m
Total Suspended Solids (NFR)	3	2019/09/04	2019/09/05	BBY6SOP-00034	SM 23 2540 D m
Free (WAD) Cyanide (2)	9	N/A	2019/09/12	CAM SOP-00457	OMOE E3015 5 m
Total (SAD) Cyanide (2)	9	2019/09/12	2019/09/12	CAM SOP-00457	OMOE E3015 5 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) This test was performed by BV Labs Calgary Environmental

(2) This test was performed by BV Labs Ontario (From Burnaby)

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).



Your Project #: SURFACE WATER
Your C.O.C. #: 588606-02-01

Attention: Jillian Chown

GOLDEN PREDATOR MINING CORP.
SUITE 250-200 BURRARD ST
VANCOUVER, BC
CANADA V6C 3L6

Report Date: 2019/09/12
Report #: R2780537
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B973051

Received: 2019/08/30, 12:50

Encryption Key



Bureau Veritas Laboratories
12 Sep 2019 17:16:18

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (604) 734 7276

=====
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3086 BC-6								
Sampling Date	2019/08/27 10:30							
Matrix	WATER							
Sample #	BC-6							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	157	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	153	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	0.0688	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	92.3	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	113	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	4.0(1)	4.0	mg/L	N/A	2019/09/03	2019/09/04	TSO	9572708
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	MO5	9575358
Nutrients								
Total Ammonia (N)	0.016	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FMO	9577479
Nitrate plus Nitrite (N)	0.0688	0.0020	mg/L	+/- 0.0106	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	323	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.12	0.50	ug/L	+/- 7.50	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	0.155	0.020	ug/L	+/- 0.025	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	0.550	0.020	ug/L	+/- 0.077	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	64.0	0.020	ug/L	+/- 5.59	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0216	0.0050	ug/L	+/- 0.0077	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.0190	0.0050	ug/L	+/- 0.0081	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.304	0.050	ug/L	+/- 0.121	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	7.8	1.0	ug/L	+/- 1.9	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	2.48	0.50	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	4.70	0.050	ug/L	+/- 0.484	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	0.487	0.050	ug/L	+/- 0.079	N/A	2019/09/05	VBA	9574781

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3086 BC-6								
Sampling Date	2019/08/27 10:30							
Matrix	WATER							
Sample #	BC-6							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Nickel (Ni)	0.471	0.020	ug/L	+/- 0.152	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	4.2	2.0	ug/L	+/- 5.5	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	0.480	0.040	ug/L	+/- 0.085	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	2360	50	ug/L	+/- 351	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	274	0.050	ug/L	+/- 20.4	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	0.927	0.0020	ug/L	+/- 0.119	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.90	0.10	ug/L	+/- 1.68	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	42.9	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	12.0	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	0.525	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	2.27	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	23.1	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	12.9	0.50	ug/L	+/- 1.33	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	0.171	0.020	ug/L	+/- 0.026	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	0.591	0.020	ug/L	+/- 0.081	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	63.5	0.020	ug/L	+/- 5.54	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0229	0.0050	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.0310	0.0050	ug/L	+/- 0.0086	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.357	0.050	ug/L	+/- 0.052	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	27.3	1.0	ug/L	+/- 3.0	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0177	0.0050	ug/L	+/- 0.0051	N/A	2019/09/05	VBA	9573695
Total Lithium (Li)	2.20	0.50	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	6.46	0.050	ug/L	+/- 0.654	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	0.508	0.050	ug/L	+/- 0.062	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	0.472	0.020	ug/L	+/- 0.048	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	2.7	2.0	ug/L	+/- 5.4	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	0.505	0.040	ug/L	+/- 0.069	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	2320	50	ug/L	+/- 344	N/A	2019/09/05	VBA	9573695



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3086 BC-6								
Sampling Date	2019/08/27 10:30							
Matrix	WATER							
Sample #	BC-6							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	266	0.050	ug/L	+/- 19.8	N/A	2019/09/05	VBA	9573695
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	0.920	0.0020	ug/L	+/- 0.118	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	1.09	0.10	ug/L	+/- 0.27	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Calcium (Ca)	41.7	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	11.9	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	0.506	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	2.29	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	24.3	3.0	mg/L	N/A	N/A	2019/09/06		9571297
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574308
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3087 BC-39								
Sampling Date	2019/08/27 11:00							
Matrix	WATER							
Sample #	BC-39							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	322	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	315	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	0.0934	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	156	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	190	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	11(1)	4.0	mg/L	+/- <RDL	2019/09/03	2019/09/04	TSO	9572708
Anions								
Dissolved Chloride (Cl)	0.51	0.50	mg/L	+/- 0.77	N/A	2019/09/04	MO5	9575358

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3087 BC-39								
Sampling Date	2019/08/27 11:00							
Matrix	WATER							
Sample #	BC-39							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Nutrients								
Total Ammonia (N)	0.015	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FMO	9577479
Nitrate plus Nitrite (N)	0.0934	0.0020	mg/L	+/- 0.0144	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	616	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	7.75	0.50	ug/L	+/- 16.5	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	2.55	0.020	ug/L	+/- 0.240	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	3.04	0.020	ug/L	+/- 0.323	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	64.6	0.020	ug/L	+/- 5.64	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0097	0.0050	ug/L	+/- 0.0073	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.371	0.0050	ug/L	+/- 0.0423	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.535	0.050	ug/L	+/- 0.128	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	21.6	1.0	ug/L	+/- 2.9	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	13.7	0.50	ug/L	+/- 1.13	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	5.82	0.050	ug/L	+/- 0.592	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	3.28	0.050	ug/L	+/- 0.415	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	1.44	0.020	ug/L	+/- 0.378	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	7.3	2.0	ug/L	+/- 5.8	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	1.47	0.040	ug/L	+/- 0.238	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	4380	50	ug/L	+/- 648	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	404	0.050	ug/L	+/- 30.1	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	3.10	0.0020	ug/L	+/- 0.395	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.32	0.10	ug/L	+/- 1.67	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	80.5	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	29.4	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	1.52	0.050	mg/L	N/A	N/A	2019/09/06		9571296



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3087 BC-39								
Sampling Date	2019/08/27 11:00							
Matrix	WATER							
Sample #	BC-39							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Sodium (Na)	4.50	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	55.5	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	70.0	0.50	ug/L	+/- 6.87	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	2.68	0.020	ug/L	+/- 0.252	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	4.02	0.020	ug/L	+/- 0.423	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	68.3	0.020	ug/L	+/- 5.96	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0217	0.0050	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	0.18	0.10	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.471	0.0050	ug/L	+/- 0.0532	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.791	0.050	ug/L	+/- 0.093	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	248	1.0	ug/L	+/- 26.6	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0949	0.0050	ug/L	+/- 0.0154	N/A	2019/09/05	VBA	9573695
Total Lithium (Li)	13.1	0.50	ug/L	+/- 1.52	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	12.6	0.050	ug/L	+/- 1.25	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	3.44	0.050	ug/L	+/- 0.408	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	1.64	0.020	ug/L	+/- 0.149	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	11.3	2.0	ug/L	+/- 6.2	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	1.57	0.040	ug/L	+/- 0.210	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	4370	50	ug/L	+/- 648	N/A	2019/09/05	VBA	9573695
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	382	0.050	ug/L	+/- 28.4	N/A	2019/09/05	VBA	9573695
Total Thallium (Tl)	0.0025	0.0020	ug/L	+/- 0.0031	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	1.83	0.50	ug/L	+/- 0.92	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	3.20	0.0020	ug/L	+/- 0.408	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	0.57	0.20	ug/L	+/- 0.40	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	1.54	0.10	ug/L	+/- 0.35	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Calcium (Ca)	77.1	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	29.7	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	1.47	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	4.66	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	59.2	3.0	mg/L	N/A	N/A	2019/09/06		9571297



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3087 BC-39 Sampling Date 2019/08/27 11:00 Matrix WATER Sample # BC-39 MERCURY BY COLD VAPOR (WATER) Elements Dissolved Mercury (Hg) <0.0020 0.0020 ug/L N/A 2019/09/04 2019/09/04 CJY 9574308 Total Mercury (Hg) <0.0020 0.0020 ug/L N/A 2019/09/04 2019/09/04 CJY 9574550								
WK3088 BC-01 Sampling Date 2019/08/27 12:45 Matrix WATER Sample # BC-01 RESULTS OF CHEMICAL ANALYSES OF WATER Calculated Parameters Filter and HNO3 Preservation FIELD N/A N/A N/A 2019/08/31 ONSITE Dissolved Hardness (CaCO3) 320 0.50 mg/L N/A N/A 2019/09/06 9571245 Total Hardness (CaCO3) 317 0.50 mg/L N/A N/A 2019/09/06 9571241 Nitrate (N) 0.272 0.0020 mg/L N/A N/A 2019/09/04 9571298 Misc. Inorganics Alkalinity (Total as CaCO3) 158 0.50 mg/L N/A N/A 2019/09/04 CGP 9573604 Alkalinity (PP as CaCO3) <0.50 0.50 mg/L N/A N/A 2019/09/04 CGP 9573604 Bicarbonate (HCO3) 192 0.50 mg/L N/A N/A 2019/09/04 CGP 9573604 Carbonate (CO3) <0.50 0.50 mg/L N/A N/A 2019/09/04 CGP 9573604 Hydroxide (OH) <0.50 0.50 mg/L N/A N/A 2019/09/04 CGP 9573604 Free Cyanide <0.0010 0.0010 mg/L N/A N/A 2019/09/12 GTO 9586161 Total Cyanide (CN) <0.0050 0.0050 mg/L N/A 2019/09/12 2019/09/12 GTO 9586162 Total Suspended Solids 19(1) 4.0 mg/L +/- <RDL 2019/09/03 2019/09/04 TSO 9572708 Anions Dissolved Chloride (Cl) <0.50 0.50 mg/L N/A N/A 2019/09/04 MO5 9575358 Nutrients Total Ammonia (N) 0.012 0.0050 mg/L +/- <RDL N/A 2019/09/06 FM0 9577479 Nitrate plus Nitrite (N) 0.272 0.0020 mg/L +/- 0.0419 N/A 2019/09/03 MHK 9573481 Nitrite (N) <0.0020 0.0020 mg/L N/A N/A 2019/09/03 MHK 9573486 Physical Properties Conductivity 620 1.0 uS/cm N/A N/A 2019/09/04 CGP 9573605 ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Dissolved Metals by ICPMS Dissolved Aluminum (Al) 10.4 0.50 ug/L +/- 21.5 N/A 2019/09/05 VBA 9574781 Dissolved Antimony (Sb) 2.59 0.020 ug/L +/- 0.244 N/A 2019/09/05 VBA 9574781 Dissolved Arsenic (As) 4.11 0.020 ug/L +/- 0.432 N/A 2019/09/05 VBA 9574781 Dissolved Barium (Ba) 59.3 0.020 ug/L +/- 5.18 N/A 2019/09/05 VBA 9574781 Dissolved Beryllium (Be) <0.010 0.010 ug/L N/A N/A 2019/09/05 VBA 9574781 Dissolved Bismuth (Bi) <0.0050 0.0050 ug/L N/A N/A 2019/09/05 VBA 9574781 Dissolved Boron (B) <10 10 ug/L N/A N/A 2019/09/05 VBA 9574781 Dissolved Cadmium (Cd) 0.0151 0.0050 ug/L +/- 0.0074 N/A 2019/09/05 VBA 9574781 Dissolved Chromium (Cr) <0.10 0.10 ug/L N/A N/A 2019/09/05 VBA 9574781								

- (1) Detection limit raised based on sample volume used for analysis.
- (2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3088 BC-01								
Sampling Date	2019/08/27 12:45							
Matrix	WATER							
Sample #	BC-01							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cobalt (Co)	0.554	0.0050	ug/L	+/- 0.0622	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.552	0.050	ug/L	+/- 0.128	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	52.6	1.0	ug/L	+/- 5.6	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	13.7	0.50	ug/L	+/- 1.13	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	53.1	0.050	ug/L	+/- 5.19	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	3.35	0.050	ug/L	+/- 0.424	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	2.37	0.020	ug/L	+/- 0.602	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	9.1	2.0	ug/L	+/- 6.0	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	1.57	0.040	ug/L	+/- 0.253	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	5180	50	ug/L	+/- 767	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	396	0.050	ug/L	+/- 29.5	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	2.97	0.0020	ug/L	+/- 0.379	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.93	0.10	ug/L	+/- 1.68	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	78.6	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	30.1	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	1.55	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	4.70	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	57.2	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	66.7	0.50	ug/L	+/- 6.54	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	2.65	0.020	ug/L	+/- 0.249	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	5.07	0.020	ug/L	+/- 0.531	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	61.6	0.020	ug/L	+/- 5.38	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	0.011	0.010	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0229	0.0050	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	0.20	0.10	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.629	0.0050	ug/L	+/- 0.0704	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.706	0.050	ug/L	+/- 0.085	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	333	1.0	ug/L	+/- 35.7	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0572	0.0050	ug/L	+/- 0.0099	N/A	2019/09/05	VBA	9573695



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3088 BC-01								
Sampling Date	2019/08/27 12:45							
Matrix	WATER							
Sample #	BC-01							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Lithium (Li)	13.4	0.50	ug/L	+/- 1.55	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	56.2	0.050	ug/L	+/- 5.50	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	3.41	0.050	ug/L	+/- 0.404	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	2.56	0.020	ug/L	+/- 0.230	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	11.7	2.0	ug/L	+/- 6.3	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	1.66	0.040	ug/L	+/- 0.222	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	5180	50	ug/L	+/- 767	N/A	2019/09/05	VBA	9573695
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	383	0.050	ug/L	+/- 28.5	N/A	2019/09/05	VBA	9573695
Total Thallium (Tl)	0.0029	0.0020	ug/L	+/- 0.0031	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	2.22	0.50	ug/L	+/- 0.95	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	3.05	0.0020	ug/L	+/- 0.388	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	0.62	0.20	ug/L	+/- 0.40	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	2.02	0.10	ug/L	+/- 0.45	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	0.11	0.10	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Calcium (Ca)	78.5	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	29.4	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	1.43	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	4.51	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	58.3	3.0	mg/L	N/A	N/A	2019/09/06		9571297
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574308
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3089 BC-37								
Sampling Date	2019/08/27 14:30							
Matrix	WATER							
Sample #	BC-37							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	318	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	310	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	0.254	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	159	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	194	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3089 BC-37								
Sampling Date	2019/08/27 14:30							
Matrix	WATER							
Sample #	BC-37							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	4.8(1)	4.0	mg/L	+/- <RDL	2019/09/03	2019/09/04	TSO	9572708
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	MO5	9575358
Nutrients								
Total Ammonia (N)	0.0090	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FM0	9577479
Nitrate plus Nitrite (N)	0.254	0.0020	mg/L	+/- 0.0392	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	625	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	11.3	0.50	ug/L	+/- 23.4	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	2.56	0.020	ug/L	+/- 0.241	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	3.97	0.020	ug/L	+/- 0.418	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	58.5	0.020	ug/L	+/- 5.11	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0107	0.0050	ug/L	+/- 0.0073	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	0.17	0.10	ug/L	+/- 0.23	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.518	0.0050	ug/L	+/- 0.0583	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.518	0.050	ug/L	+/- 0.127	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	39.5	1.0	ug/L	+/- 4.4	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	13.8	0.50	ug/L	+/- 1.15	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	46.4	0.050	ug/L	+/- 4.54	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	3.33	0.050	ug/L	+/- 0.422	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	2.41	0.020	ug/L	+/- 0.612	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	9.3	2.0	ug/L	+/- 6.0	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	1.58	0.040	ug/L	+/- 0.254	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	5040	50	ug/L	+/- 746	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	395	0.050	ug/L	+/- 29.4	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3089 BC-37								
Sampling Date	2019/08/27 14:30							
Matrix	WATER							
Sample #	BC-37							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Uranium (U)	2.97	0.0020	ug/L	+/- 0.379	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.71	0.10	ug/L	+/- 1.68	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	78.7	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	29.5	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	1.52	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	4.61	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	55.2	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	41.0	0.50	ug/L	+/- 4.04	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	2.65	0.020	ug/L	+/- 0.249	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	4.65	0.020	ug/L	+/- 0.488	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	59.4	0.020	ug/L	+/- 5.18	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0225	0.0050	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	0.13	0.10	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.580	0.0050	ug/L	+/- 0.0651	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.666	0.050	ug/L	+/- 0.081	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	274	1.0	ug/L	+/- 29.3	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0463	0.0050	ug/L	+/- 0.0084	N/A	2019/09/05	VBA	9573695
Total Lithium (Li)	13.7	0.50	ug/L	+/- 1.58	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	47.4	0.050	ug/L	+/- 4.64	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	3.37	0.050	ug/L	+/- 0.399	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	2.22	0.020	ug/L	+/- 0.200	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	10.4	2.0	ug/L	+/- 6.1	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	1.64	0.040	ug/L	+/- 0.219	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	5060	50	ug/L	+/- 749	N/A	2019/09/05	VBA	9573695
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	370	0.050	ug/L	+/- 27.6	N/A	2019/09/05	VBA	9573695
Total Thallium (Tl)	0.0026	0.0020	ug/L	+/- 0.0031	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	0.97	0.50	ug/L	+/- 0.88	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	3.04	0.0020	ug/L	+/- 0.387	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	0.67	0.20	ug/L	+/- 0.40	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	1.82	0.10	ug/L	+/- 0.41	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	0.11	0.10	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695

BUREAU
VERITASBV Labs Job #: B973051
Report Date: 2019/09/12GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3089 BC-37 Sampling Date 2019/08/27 14:30 Matrix WATER Sample # BC-37								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Calcium (Ca)	76.3	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	28.9	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	1.42	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	4.52	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	57.3	3.0	mg/L	N/A	N/A	2019/09/06		9571297
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574308
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3091 BC-31 Sampling Date 2019/08/27 15:45 Matrix WATER Sample # BC-31								
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	386	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	380	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	0.0860	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	197	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	1.35	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	237	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	1.62	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	5.2(1)	4.0	mg/L	+/- <RDL	2019/09/03	2019/09/04	TSO	9572708
Anions								
Dissolved Chloride (Cl)	0.62	0.50	mg/L	+/- 0.77	N/A	2019/09/04	MO5	9575358
Nutrients								
Total Ammonia (N)	0.011	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FMO	9577479
Nitrate plus Nitrite (N)	0.0860	0.0020	mg/L	+/- 0.0133	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	729	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	5.69	0.50	ug/L	+/- 12.4	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	0.575	0.020	ug/L	+/- 0.059	N/A	2019/09/05	VBA	9574781

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3091 BC-31								
Sampling Date	2019/08/27 15:45							
Matrix	WATER							
Sample #	BC-31							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Arsenic (As)	0.545	0.020	ug/L	+/- 0.076	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	60.6	0.020	ug/L	+/- 5.29	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0358	0.0050	ug/L	+/- 0.0086	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.0323	0.0050	ug/L	+/- 0.0086	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.694	0.050	ug/L	+/- 0.134	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	14.1	1.0	ug/L	+/- 2.3	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	0.0060	0.0050	ug/L	+/- 0.0150	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	6.56	0.50	ug/L	+/- 0.57	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	8.91	0.050	ug/L	+/- 0.891	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	1.71	0.050	ug/L	+/- 0.223	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	1.48	0.020	ug/L	+/- 0.387	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	5.8	2.0	ug/L	+/- 5.6	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	1.77	0.040	ug/L	+/- 0.284	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	3430	50	ug/L	+/- 509	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	490	0.050	ug/L	+/- 36.5	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	4.69	0.0020	ug/L	+/- 0.598	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	2.24	0.10	ug/L	+/- 1.75	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	91.9	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	38.0	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	1.09	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	2.53	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	64.3	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	10.7	0.50	ug/L	+/- 1.12	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	0.565	0.020	ug/L	+/- 0.058	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	0.557	0.020	ug/L	+/- 0.078	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	60.1	0.020	ug/L	+/- 5.25	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3091 BC-31								
Sampling Date	2019/08/27 15:45							
Matrix	WATER							
Sample #	BC-31							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0386	0.0050	ug/L	+/- 0.0055	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.0378	0.0050	ug/L	+/- 0.0089	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.739	0.050	ug/L	+/- 0.088	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	28.4	1.0	ug/L	+/- 3.1	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0195	0.0050	ug/L	+/- 0.0053	N/A	2019/09/05	VBA	9573695
Total Lithium (Li)	6.29	0.50	ug/L	+/- 0.80	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	9.76	0.050	ug/L	+/- 0.974	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	1.72	0.050	ug/L	+/- 0.204	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	1.54	0.020	ug/L	+/- 0.140	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	4.2	2.0	ug/L	+/- 5.5	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	1.79	0.040	ug/L	+/- 0.239	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	3360	50	ug/L	+/- 498	N/A	2019/09/05	VBA	9573695
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	458	0.050	ug/L	+/- 34.0	N/A	2019/09/05	VBA	9573695
Total Thallium (Tl)	0.0028	0.0020	ug/L	+/- 0.0031	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	4.67	0.0020	ug/L	+/- 0.594	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	2.42	0.10	ug/L	+/- 0.53	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Calcium (Ca)	89.8	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	37.7	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	1.05	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	2.54	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	67.5	3.0	mg/L	N/A	N/A	2019/09/06		9571297
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574308
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3092 BC-05								
Sampling Date	2019/08/27 16:30							
Matrix	WATER							
Sample #	BC-05							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	329	0.50	mg/L	N/A	N/A	2019/09/06		9571245



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3092 BC-05								
Sampling Date	2019/08/27 16:30							
Matrix	WATER							
Sample #	BC-05							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Total Hardness (CaCO3)	319	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	0.101	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	152	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	185	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	<4.0(1)	4.0	mg/L	N/A	2019/09/03	2019/09/04	TSO	9572708
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	MO5	9575358
Nutrients								
Total Ammonia (N)	0.028	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FM0	9577479
Nitrate plus Nitrite (N)	0.101	0.0020	mg/L	+/- 0.0156	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	632	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.29	0.50	ug/L	+/- 7.84	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	0.208	0.020	ug/L	+/- 0.029	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	0.236	0.020	ug/L	+/- 0.054	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	48.2	0.020	ug/L	+/- 4.21	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0871	0.0050	ug/L	+/- 0.0135	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.0234	0.0050	ug/L	+/- 0.0082	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.755	0.050	ug/L	+/- 0.137	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	8.1	1.0	ug/L	+/- 1.9	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	2.85	0.50	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	5.75	0.050	ug/L	+/- 0.585	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	1.58	0.050	ug/L	+/- 0.207	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	1.98	0.020	ug/L	+/- 0.508	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	7.8	2.0	ug/L	+/- 5.8	N/A	2019/09/05	VBA	9574781

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3092 BC-05								
Sampling Date	2019/08/27 16:30							
Matrix	WATER							
Sample #	BC-05							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Selenium (Se)	2.35	0.040	ug/L	+/- 0.375	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	3120	50	ug/L	+/- 462	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	365	0.050	ug/L	+/- 27.2	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	2.49	0.0020	ug/L	+/- 0.318	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	8.94	0.10	ug/L	+/- 2.59	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	82.2	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	30.0	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	0.824	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	1.66	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	58.7	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	5.28	0.50	ug/L	+/- 0.65	N/A	2019/09/05	VBA	9573695
Total Antimony (Sb)	0.216	0.020	ug/L	+/- 0.029	N/A	2019/09/05	VBA	9573695
Total Arsenic (As)	0.192	0.020	ug/L	+/- 0.051	N/A	2019/09/05	VBA	9573695
Total Barium (Ba)	47.8	0.020	ug/L	+/- 4.18	N/A	2019/09/05	VBA	9573695
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cadmium (Cd)	0.0945	0.0050	ug/L	+/- 0.0129	N/A	2019/09/05	VBA	9573695
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Cobalt (Co)	0.0277	0.0050	ug/L	+/- 0.0084	N/A	2019/09/05	VBA	9573695
Total Copper (Cu)	0.798	0.050	ug/L	+/- 0.094	N/A	2019/09/05	VBA	9573695
Total Iron (Fe)	12.8	1.0	ug/L	+/- 1.5	N/A	2019/09/05	VBA	9573695
Total Lead (Pb)	0.0103	0.0050	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Lithium (Li)	2.55	0.50	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9573695
Total Manganese (Mn)	6.36	0.050	ug/L	+/- 0.644	N/A	2019/09/05	VBA	9573695
Total Molybdenum (Mo)	1.62	0.050	ug/L	+/- 0.193	N/A	2019/09/05	VBA	9573695
Total Nickel (Ni)	2.02	0.020	ug/L	+/- 0.182	N/A	2019/09/05	VBA	9573695
Total Phosphorus (P)	8.8	2.0	ug/L	+/- 5.9	N/A	2019/09/05	VBA	9573695
Total Selenium (Se)	2.47	0.040	ug/L	+/- 0.330	N/A	2019/09/05	VBA	9573695
Total Silicon (Si)	3060(2)	50	ug/L	+/- 453	N/A	2019/09/05	VBA	9573695
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Strontium (Sr)	340	0.050	ug/L	+/- 25.3	N/A	2019/09/05	VBA	9573695

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3092 BC-05								
Sampling Date	2019/08/27 16:30							
Matrix	WATER							
Sample #	BC-05							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Thallium (Tl)	0.0037	0.0020	ug/L	+/- 0.0031	N/A	2019/09/05	VBA	9573695
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Uranium (U)	2.51	0.0020	ug/L	+/- 0.320	N/A	2019/09/05	VBA	9573695
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Zinc (Zn)	9.55	0.10	ug/L	+/- 2.03	N/A	2019/09/05	VBA	9573695
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9573695
Total Calcium (Ca)	78.8	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	29.7	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	0.785	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	1.68	0.050	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	61.5	3.0	mg/L	N/A	N/A	2019/09/06		9571297
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574308
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3093 BC-02								
Sampling Date	2019/08/28 11:00							
Matrix	WATER							
Sample #	BC-02							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	604	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	627	0.50	mg/L	N/A	N/A	2019/09/05		9571241
Nitrate (N)	3.76	0.010	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	215	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	263	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	12	1.0	mg/L	+/- 1.1	2019/09/04	2019/09/05	TSO	9574797
Anions								
Dissolved Chloride (Cl)	2.2	0.50	mg/L	+/- 0.77	N/A	2019/09/04	MO5	9575356
Nutrients								
Nitrate plus Nitrite (N)	3.76(3)	0.010	mg/L	+/- 0.580	N/A	2019/09/03	MHK	9573481
Nitrite (N)	0.0022	0.0020	mg/L	+/- <RDL	N/A	2019/09/03	MHK	9573486

- (1) Detection limit raised based on sample volume used for analysis.
(2) Matrix Spike for Si outside acceptance criteria (10% of analytes failure allowed).
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3093 BC-02								
Sampling Date	2019/08/28 11:00							
Matrix	WATER							
Sample #	BC-02							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Conductivity	1120	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.80	0.50	ug/L	+/- 8.80	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	0.567	0.020	ug/L	+/- 0.059	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	0.312	0.020	ug/L	+/- 0.058	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	49.7	0.020	ug/L	+/- 4.34	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0167	0.0050	ug/L	+/- 0.0075	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	5.96	0.0050	ug/L	+/- 0.655	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.346	0.050	ug/L	+/- 0.122	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	27.9	1.0	ug/L	+/- 3.4	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	21.3	0.50	ug/L	+/- 1.75	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	33.5	0.050	ug/L	+/- 3.29	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	0.349	0.050	ug/L	+/- 0.065	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	0.815	0.020	ug/L	+/- 0.229	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	4.9	2.0	ug/L	+/- 5.6	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	5.67	0.040	ug/L	+/- 0.898	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	5390	50	ug/L	+/- 798	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	413	0.050	ug/L	+/- 30.8	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	3.02	0.0020	ug/L	+/- 0.385	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.49	0.10	ug/L	+/- 1.67	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	148	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	57.2	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	2.28	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	10.4	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	131	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	64.1	3.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3093 BC-02								
Sampling Date	2019/08/28 11:00							
Matrix	WATER							
Sample #	BC-02							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Antimony (Sb)	0.641	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Arsenic (As)	0.419	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Barium (Ba)	54.4	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Boron (B)	14	10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Cadmium (Cd)	0.0196	0.0050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Chromium (Cr)	0.14	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Cobalt (Co)	6.81	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Copper (Cu)	0.57	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Iron (Fe)	177	5.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Lead (Pb)	0.137	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Lithium (Li)	22.6	0.50	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Manganese (Mn)	37.4	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Molybdenum (Mo)	0.376	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Nickel (Ni)	1.05	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Phosphorus (P)	16.0	5.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Selenium (Se)	6.22	0.040	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Silicon (Si)	5780	50	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Strontium (Sr)	409	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Titanium (Ti)	2.9	2.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Uranium (U)	3.19	0.0050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Vanadium (V)	0.49	0.20	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Zinc (Zn)	1.0	1.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Calcium (Ca)	151	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Magnesium (Mg)	60.5	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Potassium (K)	2.27	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Sodium (Na)	10.9	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Sulphur (S)	143	3.0	mg/L	N/A	N/A	2019/09/05		9571297
Total Sulphur (S)	143000	600	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574589
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3094 BC-03								
Sampling Date	2019/08/28 12:00							
Matrix	WATER							
Sample #	BC-03							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	334	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	337	0.50	mg/L	N/A	N/A	2019/09/05		9571241
Nitrate (N)	0.115	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	162	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	198	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	4.4	1.0	mg/L	+/- <RDL	2019/09/04	2019/09/05	TSO	9574797
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	MO5	9575358
Nutrients								
Total Ammonia (N)	0.019	0.0050	mg/L	+/- <RDL	N/A	2019/09/06	FMO	9577479
Nitrate plus Nitrite (N)	0.115	0.0020	mg/L	+/- 0.0178	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	651	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	30.3	0.50	ug/L	+/- 60.3	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	3.65	0.020	ug/L	+/- 0.341	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	1.48	0.020	ug/L	+/- 0.166	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	54.2	0.020	ug/L	+/- 4.73	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	0.016	0.010	ug/L	+/- <RDL	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0370	0.0050	ug/L	+/- 0.0087	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.973	0.0050	ug/L	+/- 0.108	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.643	0.050	ug/L	+/- 0.132	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	147	1.0	ug/L	+/- 14.7	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	0.0067	0.0050	ug/L	+/- 0.0150	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	15.9	0.50	ug/L	+/- 1.32	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	104	0.050	ug/L	+/- 10.2	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	2.65	0.050	ug/L	+/- 0.338	N/A	2019/09/05	VBA	9574781



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3094 BC-03								
Sampling Date	2019/08/28 12:00							
Matrix	WATER							
Sample #	BC-03							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Nickel (Ni)	4.89	0.020	ug/L	+/- 1.21	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	6.9	2.0	ug/L	+/- 5.7	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	1.30	0.040	ug/L	+/- 0.211	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	4270	50	ug/L	+/- 632	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	438	0.050	ug/L	+/- 32.6	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	2.58	0.0020	ug/L	+/- 0.329	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	6.26	0.10	ug/L	+/- 2.18	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	82.2	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	31.3	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	1.76	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	3.92	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sulphur (S)	59.9	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	56.1	3.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Antimony (Sb)	3.65	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Arsenic (As)	2.31	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Barium (Ba)	54.7	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Beryllium (Be)	0.025	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Boron (B)	11	10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Cadmium (Cd)	0.0494	0.0050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Chromium (Cr)	0.11	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Cobalt (Co)	1.09	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Copper (Cu)	0.77	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Iron (Fe)	393	5.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Lead (Pb)	0.047	0.020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Lithium (Li)	16.4	0.50	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Manganese (Mn)	112	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Molybdenum (Mo)	2.70	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Nickel (Ni)	5.16	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Phosphorus (P)	11.9	5.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Selenium (Se)	1.32	0.040	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Silicon (Si)	4480	50	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3094 BC-03 Sampling Date 2019/08/28 12:00 Matrix WATER Sample # BC-03								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Strontium (Sr)	414	0.050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Thallium (Tl)	0.0025	0.0020	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Uranium (U)	2.69	0.0050	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Vanadium (V)	0.45	0.20	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Zinc (Zn)	8.0	1.0	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
Total Calcium (Ca)	82.3	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Magnesium (Mg)	31.9	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Potassium (K)	1.66	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Sodium (Na)	3.95	0.25	mg/L	N/A	N/A	2019/09/05		9571297
Total Sulphur (S)	61.8	3.0	mg/L	N/A	N/A	2019/09/05		9571297
Total Sulphur (S)	61800	600	ug/L	N/A	2019/09/03	2019/09/04	AA1	9573237
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0029	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574589
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550
WK3095 BC-70 Sampling Date 2019/08/28 13:30 Matrix WATER Sample # BC-70								
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/08/31		ONSITE
Dissolved Hardness (CaCO3)	41.8	0.50	mg/L	N/A	N/A	2019/09/06		9571245
Total Hardness (CaCO3)	41.6	0.50	mg/L	N/A	N/A	2019/09/06		9571241
Nitrate (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/04		9571298
Misc. Inorganics								
Alkalinity (Total as CaCO3)	41.5	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Bicarbonate (HCO3)	50.7	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/09/04	CGP	9573604
Free Cyanide	<0.0010	0.0010	mg/L	N/A	N/A	2019/09/12	GTO	9586161
Total Cyanide (CN)	<0.0050	0.0050	mg/L	N/A	2019/09/12	2019/09/12	GTO	9586162
Total Suspended Solids	3.6	1.0	mg/L	+/- <RDL	2019/09/04	2019/09/05	TSO	9574810
Anions								
Dissolved Chloride (Cl)	2.3	0.50	mg/L	+/- 0.77	N/A	2019/09/04	MO5	9575356



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3095 BC-70								
Sampling Date	2019/08/28 13:30							
Matrix	WATER							
Sample #	BC-70							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Nutrients								
Nitrate plus Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573481
Nitrite (N)	<0.0020	0.0020	mg/L	N/A	N/A	2019/09/03	MHK	9573486
Physical Properties								
Conductivity	92.0	1.0	uS/cm	N/A	N/A	2019/09/04	CGP	9573605
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	13.5	0.50	ug/L	+/- 27.7	N/A	2019/09/05	VBA	9574781
Dissolved Antimony (Sb)	4.33	0.020	ug/L	+/- 0.404	N/A	2019/09/05	VBA	9574781
Dissolved Arsenic (As)	37.3	0.020	ug/L	+/- 3.83	N/A	2019/09/05	VBA	9574781
Dissolved Barium (Ba)	6.27	0.020	ug/L	+/- 0.558	N/A	2019/09/05	VBA	9574781
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cadmium (Cd)	0.0148	0.0050	ug/L	+/- 0.0074	N/A	2019/09/05	VBA	9574781
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Cobalt (Co)	0.0824	0.0050	ug/L	+/- 0.0123	N/A	2019/09/05	VBA	9574781
Dissolved Copper (Cu)	0.452	0.050	ug/L	+/- 0.125	N/A	2019/09/05	VBA	9574781
Dissolved Iron (Fe)	40.2	1.0	ug/L	+/- 4.5	N/A	2019/09/05	VBA	9574781
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Lithium (Li)	<0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Manganese (Mn)	2.59	0.050	ug/L	+/- 0.283	N/A	2019/09/05	VBA	9574781
Dissolved Molybdenum (Mo)	0.590	0.050	ug/L	+/- 0.090	N/A	2019/09/05	VBA	9574781
Dissolved Nickel (Ni)	0.943	0.020	ug/L	+/- 0.259	N/A	2019/09/05	VBA	9574781
Dissolved Phosphorus (P)	27.8	2.0	ug/L	+/- 9.1	N/A	2019/09/05	VBA	9574781
Dissolved Selenium (Se)	0.143	0.040	ug/L	+/- 0.040	N/A	2019/09/05	VBA	9574781
Dissolved Silicon (Si)	1530	50	ug/L	+/- 228	N/A	2019/09/05	VBA	9574781
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Strontium (Sr)	42.5	0.050	ug/L	+/- 3.17	N/A	2019/09/05	VBA	9574781
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Titanium (Ti)	0.50	0.50	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Uranium (U)	0.0766	0.0020	ug/L	+/- 0.0118	N/A	2019/09/05	VBA	9574781
Dissolved Vanadium (V)	0.38	0.20	ug/L	+/- 0.40	N/A	2019/09/05	VBA	9574781
Dissolved Zinc (Zn)	0.25	0.10	ug/L	+/- 1.67	N/A	2019/09/05	VBA	9574781
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/09/05	VBA	9574781
Dissolved Calcium (Ca)	14.4	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Magnesium (Mg)	1.45	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Potassium (K)	5.55	0.050	mg/L	N/A	N/A	2019/09/06		9571296
Dissolved Sodium (Na)	0.803	0.050	mg/L	N/A	N/A	2019/09/06		9571296



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3095 BC-70								
Sampling Date	2019/08/28 13:30							
Matrix	WATER							
Sample #	BC-70							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Sulphur (S)	<3.0	3.0	mg/L	N/A	N/A	2019/09/06		9571296
Total Metals by ICPMS								
Total Aluminum (Al)	13.1	3.0	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Antimony (Sb)	4.39	0.020	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Arsenic (As)	37.8	0.020	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Barium (Ba)	8.87	0.050	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Boron (B)	<10	10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Cadmium (Cd)	0.0279	0.0050	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Cobalt (Co)	0.099	0.010	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Copper (Cu)	0.63	0.10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Iron (Fe)	108	5.0	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Lead (Pb)	0.041	0.020	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Lithium (Li)	<0.50	0.50	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Manganese (Mn)	13.7	0.10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Molybdenum (Mo)	0.605	0.050	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Nickel (Ni)	1.11	0.10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Phosphorus (P)	248	5.0	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Selenium (Se)	0.149	0.040	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Silicon (Si)	1460	50	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Strontium (Sr)	41.7	0.050	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Thallium (Tl)	0.0124	0.0020	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Uranium (U)	0.0860	0.0050	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Vanadium (V)	0.45	0.20	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Zinc (Zn)	2.2	1.0	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845
Total Calcium (Ca)	14.3	0.25	mg/L	N/A	N/A	2019/09/06		9571297
Total Magnesium (Mg)	1.45	0.25	mg/L	N/A	N/A	2019/09/06		9571297
Total Potassium (K)	5.48	0.25	mg/L	N/A	N/A	2019/09/06		9571297
Total Sodium (Na)	0.80	0.25	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	<3.0	3.0	mg/L	N/A	N/A	2019/09/06		9571297
Total Sulphur (S)	873	600	ug/L	N/A	2019/09/04	2019/09/05	VBA	9574845



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WK3095 BC-70								
Sampling Date 2019/08/28 13:30								
Matrix WATER								
Sample # BC-70								
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0089	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574589
Total Mercury (Hg)	0.0237	0.0020	ug/L	N/A	2019/09/04	2019/09/04	CJY	9574550



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.0°C
-----------	-------

Sample WK3086 [BC-6] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3087 [BC-39] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3088 [BC-01] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3089 [BC-37] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3091 [BC-31] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3092 [BC-05] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3093 [BC-02] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3094 [BC-03] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample WK3095 [BC-70] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9572708	TSO	Matrix Spike	Total Suspended Solids	2019/09/04		112	%	80 - 120
9572708	TSO	Spiked Blank	Total Suspended Solids	2019/09/04		106	%	80 - 120
9572708	TSO	Method Blank	Total Suspended Solids	2019/09/04	<4.0		mg/L	
9572708	TSO	RPD	Total Suspended Solids	2019/09/04	NC		%	20
9573237	AA1	Matrix Spike	Total Aluminum (Al)	2019/09/04		102	%	80 - 120
			Total Antimony (Sb)	2019/09/04		102	%	80 - 120
			Total Arsenic (As)	2019/09/04		105	%	80 - 120
			Total Barium (Ba)	2019/09/04		103	%	80 - 120
			Total Beryllium (Be)	2019/09/04		102	%	80 - 120
			Total Bismuth (Bi)	2019/09/04		102	%	80 - 120
			Total Boron (B)	2019/09/04		102	%	80 - 120
			Total Cadmium (Cd)	2019/09/04		100	%	80 - 120
			Total Chromium (Cr)	2019/09/04		96	%	80 - 120
			Total Cobalt (Co)	2019/09/04		97	%	80 - 120
			Total Copper (Cu)	2019/09/04		94	%	80 - 120
			Total Iron (Fe)	2019/09/04		104	%	80 - 120
			Total Lead (Pb)	2019/09/04		106	%	80 - 120
			Total Lithium (Li)	2019/09/04		104	%	80 - 120
			Total Manganese (Mn)	2019/09/04		99	%	80 - 120
			Total Molybdenum (Mo)	2019/09/04		NC	%	80 - 120
			Total Nickel (Ni)	2019/09/04		97	%	80 - 120
			Total Phosphorus (P)	2019/09/04		106	%	80 - 120
			Total Selenium (Se)	2019/09/04		101	%	80 - 120
			Total Silicon (Si)	2019/09/04		101	%	80 - 120
			Total Silver (Ag)	2019/09/04		101	%	80 - 120
			Total Strontium (Sr)	2019/09/04		NC	%	80 - 120
			Total Thallium (Tl)	2019/09/04		104	%	80 - 120
			Total Tin (Sn)	2019/09/04		101	%	80 - 120
			Total Titanium (Ti)	2019/09/04		102	%	80 - 120
			Total Uranium (U)	2019/09/04		NC	%	80 - 120
			Total Vanadium (V)	2019/09/04		100	%	80 - 120
			Total Zinc (Zn)	2019/09/04		96	%	80 - 120
			Total Zirconium (Zr)	2019/09/04		107	%	80 - 120
			Total Sulphur (S)	2019/09/04		103	%	80 - 120
9573237	AA1	Spiked Blank	Total Aluminum (Al)	2019/09/04		106	%	80 - 120
			Total Antimony (Sb)	2019/09/04		101	%	80 - 120
			Total Arsenic (As)	2019/09/04		103	%	80 - 120
			Total Barium (Ba)	2019/09/04		103	%	80 - 120
			Total Beryllium (Be)	2019/09/04		104	%	80 - 120
			Total Bismuth (Bi)	2019/09/04		104	%	80 - 120
			Total Boron (B)	2019/09/04		104	%	80 - 120
			Total Cadmium (Cd)	2019/09/04		101	%	80 - 120
			Total Chromium (Cr)	2019/09/04		99	%	80 - 120
			Total Cobalt (Co)	2019/09/04		100	%	80 - 120
			Total Copper (Cu)	2019/09/04		99	%	80 - 120
			Total Iron (Fe)	2019/09/04		101	%	80 - 120
			Total Lead (Pb)	2019/09/04		107	%	80 - 120
			Total Lithium (Li)	2019/09/04		107	%	80 - 120
			Total Manganese (Mn)	2019/09/04		103	%	80 - 120
			Total Molybdenum (Mo)	2019/09/04		103	%	80 - 120
			Total Nickel (Ni)	2019/09/04		102	%	80 - 120
			Total Phosphorus (P)	2019/09/04		105	%	80 - 120
			Total Selenium (Se)	2019/09/04		100	%	80 - 120
			Total Silicon (Si)	2019/09/04		104	%	80 - 120
			Total Silver (Ag)	2019/09/04		101	%	80 - 120



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Strontium (Sr)	2019/09/04		101	%	80 - 120
			Total Thallium (Tl)	2019/09/04		104	%	80 - 120
			Total Tin (Sn)	2019/09/04		101	%	80 - 120
			Total Titanium (Ti)	2019/09/04		103	%	80 - 120
			Total Uranium (U)	2019/09/04		106	%	80 - 120
			Total Vanadium (V)	2019/09/04		101	%	80 - 120
			Total Zinc (Zn)	2019/09/04		102	%	80 - 120
			Total Zirconium (Zr)	2019/09/04		104	%	80 - 120
			Total Sulphur (S)	2019/09/04		100	%	80 - 120
9573237	AA1	Method Blank	Total Aluminum (Al)	2019/09/04	<3.0		ug/L	
			Total Antimony (Sb)	2019/09/04	<0.020		ug/L	
			Total Arsenic (As)	2019/09/04	<0.020		ug/L	
			Total Barium (Ba)	2019/09/04	<0.050		ug/L	
			Total Beryllium (Be)	2019/09/04	<0.010		ug/L	
			Total Bismuth (Bi)	2019/09/04	<0.010		ug/L	
			Total Boron (B)	2019/09/04	<10		ug/L	
			Total Cadmium (Cd)	2019/09/04	<0.0050		ug/L	
			Total Chromium (Cr)	2019/09/04	<0.10		ug/L	
			Total Cobalt (Co)	2019/09/04	<0.010		ug/L	
			Total Copper (Cu)	2019/09/04	<0.10		ug/L	
			Total Iron (Fe)	2019/09/04	<5.0		ug/L	
			Total Lead (Pb)	2019/09/04	<0.020		ug/L	
			Total Lithium (Li)	2019/09/04	<0.50		ug/L	
			Total Manganese (Mn)	2019/09/04	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/09/04	<0.050		ug/L	
			Total Nickel (Ni)	2019/09/04	<0.10		ug/L	
			Total Phosphorus (P)	2019/09/04	<5.0		ug/L	
			Total Selenium (Se)	2019/09/04	<0.040		ug/L	
			Total Silicon (Si)	2019/09/04	<50		ug/L	
			Total Silver (Ag)	2019/09/04	<0.010		ug/L	
			Total Strontium (Sr)	2019/09/04	0.080,		ug/L	
					RDL=0.050 (1)			
			Total Thallium (Tl)	2019/09/04	<0.0020		ug/L	
			Total Tin (Sn)	2019/09/04	<0.20		ug/L	
			Total Titanium (Ti)	2019/09/04	<2.0		ug/L	
			Total Uranium (U)	2019/09/04	<0.0050		ug/L	
			Total Vanadium (V)	2019/09/04	<0.20		ug/L	
			Total Zinc (Zn)	2019/09/04	<1.0		ug/L	
			Total Zirconium (Zr)	2019/09/04	<0.10		ug/L	
			Total Sulphur (S)	2019/09/04	<600		ug/L	
9573237	AA1	RPD	Total Aluminum (Al)	2019/09/04	3.5		%	20
			Total Antimony (Sb)	2019/09/04	12		%	20
			Total Arsenic (As)	2019/09/04	7.5		%	20
			Total Barium (Ba)	2019/09/04	0.36		%	20
			Total Beryllium (Be)	2019/09/04	NC		%	20
			Total Bismuth (Bi)	2019/09/04	NC		%	20
			Total Boron (B)	2019/09/04	NC		%	20
			Total Cadmium (Cd)	2019/09/04	NC		%	20
			Total Chromium (Cr)	2019/09/04	0.38		%	20
			Total Cobalt (Co)	2019/09/04	4.5		%	20
			Total Copper (Cu)	2019/09/04	0.88		%	20
			Total Iron (Fe)	2019/09/04	2.3		%	20
			Total Lead (Pb)	2019/09/04	8.2		%	20
			Total Lithium (Li)	2019/09/04	2.2		%	20
			Total Manganese (Mn)	2019/09/04	1.4		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Molybdenum (Mo)	2019/09/04	2.2		%	20
			Total Nickel (Ni)	2019/09/04	3.2		%	20
			Total Phosphorus (P)	2019/09/04	14		%	20
			Total Selenium (Se)	2019/09/04	5.8		%	20
			Total Silicon (Si)	2019/09/04	1.0		%	20
			Total Silver (Ag)	2019/09/04	NC		%	20
			Total Strontium (Sr)	2019/09/04	0.86		%	20
			Total Thallium (Tl)	2019/09/04	NC		%	20
			Total Tin (Sn)	2019/09/04	NC		%	20
			Total Titanium (Ti)	2019/09/04	12		%	20
			Total Uranium (U)	2019/09/04	1.4		%	20
			Total Vanadium (V)	2019/09/04	8.5		%	20
			Total Zinc (Zn)	2019/09/04	NC		%	20
			Total Zirconium (Zr)	2019/09/04	7.4		%	20
			Total Sulphur (S)	2019/09/04	0.41		%	20
9573481	MHK	Matrix Spike [WK3095-01]	Nitrate plus Nitrite (N)	2019/09/03		102	%	80 - 120
9573481	MHK	Spiked Blank	Nitrate plus Nitrite (N)	2019/09/03		104	%	80 - 120
9573481	MHK	Method Blank	Nitrate plus Nitrite (N)	2019/09/03	<0.0020		mg/L	
9573481	MHK	RPD [WK3095-01]	Nitrate plus Nitrite (N)	2019/09/03	NC		%	25
9573486	MHK	Matrix Spike [WK3095-01]	Nitrite (N)	2019/09/03		95	%	80 - 120
9573486	MHK	Spiked Blank	Nitrite (N)	2019/09/03		100	%	80 - 120
9573486	MHK	Method Blank	Nitrite (N)	2019/09/03	<0.0020		mg/L	
9573486	MHK	RPD [WK3095-01]	Nitrite (N)	2019/09/03	NC		%	25
9573604	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2019/09/04		92	%	80 - 120
9573604	CGP	Method Blank	Alkalinity (Total as CaCO3)	2019/09/04	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/09/04	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/09/04	<0.50		mg/L	
			Carbonate (CO3)	2019/09/04	<0.50		mg/L	
			Hydroxide (OH)	2019/09/04	<0.50		mg/L	
9573605	CGP	Spiked Blank	Conductivity	2019/09/04		100	%	80 - 120
9573605	CGP	Method Blank	Conductivity	2019/09/04	<1.0		uS/cm	
9573695	VBA	Matrix Spike [WK3092-03]	Total Aluminum (Al)	2019/09/05		105	%	80 - 120
			Total Antimony (Sb)	2019/09/05		103	%	80 - 120
			Total Arsenic (As)	2019/09/05		106	%	80 - 120
			Total Barium (Ba)	2019/09/05		98	%	80 - 120
			Total Beryllium (Be)	2019/09/05		101	%	80 - 120
			Total Bismuth (Bi)	2019/09/05		100	%	80 - 120
			Total Boron (B)	2019/09/05		103	%	80 - 120
			Total Cadmium (Cd)	2019/09/05		103	%	80 - 120
			Total Chromium (Cr)	2019/09/05		101	%	80 - 120
			Total Cobalt (Co)	2019/09/05		97	%	80 - 120
			Total Copper (Cu)	2019/09/05		95	%	80 - 120
			Total Iron (Fe)	2019/09/05		103	%	80 - 120
			Total Lead (Pb)	2019/09/05		105	%	80 - 120
			Total Lithium (Li)	2019/09/05		99	%	80 - 120
			Total Manganese (Mn)	2019/09/05		100	%	80 - 120
			Total Molybdenum (Mo)	2019/09/05		107	%	80 - 120
			Total Nickel (Ni)	2019/09/05		97	%	80 - 120
			Total Phosphorus (P)	2019/09/05		120	%	80 - 120
			Total Selenium (Se)	2019/09/05		110	%	80 - 120
			Total Silicon (Si)	2019/09/05		79 (2)	%	80 - 120
			Total Silver (Ag)	2019/09/05		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Strontium (Sr)	2019/09/05		NC	%	80 - 120
			Total Thallium (Tl)	2019/09/05		104	%	80 - 120
			Total Tin (Sn)	2019/09/05		104	%	80 - 120
			Total Titanium (Ti)	2019/09/05		102	%	80 - 120
			Total Uranium (U)	2019/09/05		108	%	80 - 120
			Total Vanadium (V)	2019/09/05		102	%	80 - 120
			Total Zinc (Zn)	2019/09/05		99	%	80 - 120
			Total Zirconium (Zr)	2019/09/05		106	%	80 - 120
9573695	VBA	Spiked Blank	Total Aluminum (Al)	2019/09/05		106	%	80 - 120
			Total Antimony (Sb)	2019/09/05		102	%	80 - 120
			Total Arsenic (As)	2019/09/05		98	%	80 - 120
			Total Barium (Ba)	2019/09/05		102	%	80 - 120
			Total Beryllium (Be)	2019/09/05		103	%	80 - 120
			Total Bismuth (Bi)	2019/09/05		103	%	80 - 120
			Total Boron (B)	2019/09/05		103	%	80 - 120
			Total Cadmium (Cd)	2019/09/05		102	%	80 - 120
			Total Chromium (Cr)	2019/09/05		99	%	80 - 120
			Total Cobalt (Co)	2019/09/05		98	%	80 - 120
			Total Copper (Cu)	2019/09/05		98	%	80 - 120
			Total Iron (Fe)	2019/09/05		102	%	80 - 120
			Total Lead (Pb)	2019/09/05		107	%	80 - 120
			Total Lithium (Li)	2019/09/05		103	%	80 - 120
			Total Manganese (Mn)	2019/09/05		101	%	80 - 120
			Total Molybdenum (Mo)	2019/09/05		104	%	80 - 120
			Total Nickel (Ni)	2019/09/05		100	%	80 - 120
			Total Phosphorus (P)	2019/09/05		100	%	80 - 120
			Total Selenium (Se)	2019/09/05		100	%	80 - 120
			Total Silicon (Si)	2019/09/05		99	%	80 - 120
			Total Silver (Ag)	2019/09/05		101	%	80 - 120
			Total Strontium (Sr)	2019/09/05		99	%	80 - 120
			Total Thallium (Tl)	2019/09/05		105	%	80 - 120
			Total Tin (Sn)	2019/09/05		103	%	80 - 120
			Total Titanium (Ti)	2019/09/05		100	%	80 - 120
			Total Uranium (U)	2019/09/05		107	%	80 - 120
			Total Vanadium (V)	2019/09/05		100	%	80 - 120
			Total Zinc (Zn)	2019/09/05		103	%	80 - 120
			Total Zirconium (Zr)	2019/09/05		100	%	80 - 120
9573695	VBA	Method Blank	Total Aluminum (Al)	2019/09/05	<0.50		ug/L	
			Total Antimony (Sb)	2019/09/05	<0.020		ug/L	
			Total Arsenic (As)	2019/09/05	<0.020		ug/L	
			Total Barium (Ba)	2019/09/05	<0.020		ug/L	
			Total Beryllium (Be)	2019/09/05	<0.010		ug/L	
			Total Bismuth (Bi)	2019/09/05	<0.0050		ug/L	
			Total Boron (B)	2019/09/05	<10		ug/L	
			Total Cadmium (Cd)	2019/09/05	<0.0050		ug/L	
			Total Chromium (Cr)	2019/09/05	<0.10		ug/L	
			Total Cobalt (Co)	2019/09/05	<0.0050		ug/L	
			Total Copper (Cu)	2019/09/05	<0.050		ug/L	
			Total Iron (Fe)	2019/09/05	<1.0		ug/L	
			Total Lead (Pb)	2019/09/05	<0.0050		ug/L	
			Total Lithium (Li)	2019/09/05	<0.50		ug/L	
			Total Manganese (Mn)	2019/09/05	<0.050		ug/L	
			Total Molybdenum (Mo)	2019/09/05	<0.050		ug/L	
			Total Nickel (Ni)	2019/09/05	<0.020		ug/L	
			Total Phosphorus (P)	2019/09/05	<2.0		ug/L	



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Selenium (Se)	2019/09/05	<0.040		ug/L	
			Total Silicon (Si)	2019/09/05	<50		ug/L	
			Total Silver (Ag)	2019/09/05	<0.0050		ug/L	
			Total Strontium (Sr)	2019/09/05	<0.050		ug/L	
			Total Thallium (Tl)	2019/09/05	0.0033, RDL=0.0020 (3)		ug/L	
			Total Tin (Sn)	2019/09/05	<0.20		ug/L	
			Total Titanium (Ti)	2019/09/05	<0.50		ug/L	
			Total Uranium (U)	2019/09/05	<0.0020		ug/L	
			Total Vanadium (V)	2019/09/05	<0.20		ug/L	
			Total Zinc (Zn)	2019/09/05	<0.10		ug/L	
			Total Zirconium (Zr)	2019/09/05	<0.10		ug/L	
9573695	VBA	RPD [WK3092-03]	Total Aluminum (Al)	2019/09/05	3.8		%	20
			Total Antimony (Sb)	2019/09/05	0.88		%	20
			Total Arsenic (As)	2019/09/05	0.37		%	20
			Total Barium (Ba)	2019/09/05	1.9		%	20
			Total Beryllium (Be)	2019/09/05	NC		%	20
			Total Bismuth (Bi)	2019/09/05	NC		%	20
			Total Boron (B)	2019/09/05	NC		%	20
			Total Cadmium (Cd)	2019/09/05	4.0		%	20
			Total Chromium (Cr)	2019/09/05	NC		%	20
			Total Cobalt (Co)	2019/09/05	0.72		%	20
			Total Copper (Cu)	2019/09/05	0.65		%	20
			Total Iron (Fe)	2019/09/05	0.10		%	20
			Total Lead (Pb)	2019/09/05	13		%	20
			Total Lithium (Li)	2019/09/05	2.0		%	20
			Total Manganese (Mn)	2019/09/05	2.6		%	20
			Total Molybdenum (Mo)	2019/09/05	0.012		%	20
			Total Nickel (Ni)	2019/09/05	1.9		%	20
			Total Phosphorus (P)	2019/09/05	7.2		%	20
			Total Selenium (Se)	2019/09/05	0.55		%	20
			Total Silicon (Si)	2019/09/05	0.84		%	20
			Total Silver (Ag)	2019/09/05	NC		%	20
			Total Strontium (Sr)	2019/09/05	0.26		%	20
			Total Thallium (Tl)	2019/09/05	18		%	20
			Total Tin (Sn)	2019/09/05	NC		%	20
			Total Titanium (Ti)	2019/09/05	NC		%	20
			Total Uranium (U)	2019/09/05	0.24		%	20
			Total Vanadium (V)	2019/09/05	NC		%	20
			Total Zinc (Zn)	2019/09/05	0.048		%	20
			Total Zirconium (Zr)	2019/09/05	NC		%	20
9574308	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/09/04		86	%	80 - 120
9574308	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/09/04		96	%	80 - 120
9574308	CJY	Method Blank	Dissolved Mercury (Hg)	2019/09/04	<0.0020		ug/L	
9574308	CJY	RPD	Dissolved Mercury (Hg)	2019/09/04	NC		%	20
9574550	CJY	Matrix Spike	Total Mercury (Hg)	2019/09/04		106	%	80 - 120
9574550	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/04		105	%	80 - 120
9574550	CJY	Method Blank	Total Mercury (Hg)	2019/09/04	<0.0020		ug/L	
9574550	CJY	RPD	Total Mercury (Hg)	2019/09/04	NC		%	20
9574589	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/09/04		109	%	80 - 120
9574589	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/09/04		105	%	80 - 120
9574589	CJY	Method Blank	Dissolved Mercury (Hg)	2019/09/04	<0.0020		ug/L	
9574589	CJY	RPD	Dissolved Mercury (Hg)	2019/09/04	NC		%	20
9574781	VBA	Matrix Spike [WK3086-04]	Dissolved Aluminum (Al)	2019/09/05		107	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Antimony (Sb)	2019/09/05		101	%	80 - 120
			Dissolved Arsenic (As)	2019/09/05		99	%	80 - 120
			Dissolved Barium (Ba)	2019/09/05		NC	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/05		99	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/05		101	%	80 - 120
			Dissolved Boron (B)	2019/09/05		102	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/05		100	%	80 - 120
			Dissolved Chromium (Cr)	2019/09/05		95	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/05		91	%	80 - 120
			Dissolved Copper (Cu)	2019/09/05		90	%	80 - 120
			Dissolved Iron (Fe)	2019/09/05		99	%	80 - 120
			Dissolved Lead (Pb)	2019/09/05		106	%	80 - 120
			Dissolved Lithium (Li)	2019/09/05		103	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/05		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/05		105	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/05		93	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/05		102	%	80 - 120
			Dissolved Selenium (Se)	2019/09/05		102	%	80 - 120
			Dissolved Silicon (Si)	2019/09/05		100	%	80 - 120
			Dissolved Silver (Ag)	2019/09/05		99	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/05		NC	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/05		104	%	80 - 120
			Dissolved Tin (Sn)	2019/09/05		101	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/05		98	%	80 - 120
			Dissolved Uranium (U)	2019/09/05		105	%	80 - 120
			Dissolved Vanadium (V)	2019/09/05		97	%	80 - 120
			Dissolved Zinc (Zn)	2019/09/05		96	%	80 - 120
			Dissolved Zirconium (Zr)	2019/09/05		104	%	80 - 120
9574781	VBA	Spiked Blank	Dissolved Aluminum (Al)	2019/09/05		105	%	80 - 120
			Dissolved Antimony (Sb)	2019/09/05		100	%	80 - 120
			Dissolved Arsenic (As)	2019/09/05		100	%	80 - 120
			Dissolved Barium (Ba)	2019/09/05		102	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/05		101	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/05		100	%	80 - 120
			Dissolved Boron (B)	2019/09/05		100	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/05		100	%	80 - 120
			Dissolved Chromium (Cr)	2019/09/05		99	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/05		97	%	80 - 120
			Dissolved Copper (Cu)	2019/09/05		96	%	80 - 120
			Dissolved Iron (Fe)	2019/09/05		103	%	80 - 120
			Dissolved Lead (Pb)	2019/09/05		104	%	80 - 120
			Dissolved Lithium (Li)	2019/09/05		107	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/05		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/05		102	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/05		98	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/05		102	%	80 - 120
			Dissolved Selenium (Se)	2019/09/05		101	%	80 - 120
			Dissolved Silicon (Si)	2019/09/05		103	%	80 - 120
			Dissolved Silver (Ag)	2019/09/05		99	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/05		103	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/05		101	%	80 - 120
			Dissolved Tin (Sn)	2019/09/05		101	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/05		98	%	80 - 120
			Dissolved Uranium (U)	2019/09/05		104	%	80 - 120
			Dissolved Vanadium (V)	2019/09/05		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits	
9574781	VBA	Method Blank	Dissolved Zinc (Zn)	2019/09/05		102	%	80 - 120	
			Dissolved Zirconium (Zr)	2019/09/05		101	%	80 - 120	
			Dissolved Aluminum (Al)	2019/09/05	<0.50			ug/L	
			Dissolved Antimony (Sb)	2019/09/05	<0.020			ug/L	
			Dissolved Arsenic (As)	2019/09/05	<0.020			ug/L	
			Dissolved Barium (Ba)	2019/09/05	<0.020			ug/L	
			Dissolved Beryllium (Be)	2019/09/05	<0.010			ug/L	
			Dissolved Bismuth (Bi)	2019/09/05	<0.0050			ug/L	
			Dissolved Boron (B)	2019/09/05	<10			ug/L	
			Dissolved Cadmium (Cd)	2019/09/05	<0.0050			ug/L	
			Dissolved Chromium (Cr)	2019/09/05	<0.10			ug/L	
			Dissolved Cobalt (Co)	2019/09/05	<0.0050			ug/L	
			Dissolved Copper (Cu)	2019/09/05	<0.050			ug/L	
			Dissolved Iron (Fe)	2019/09/05	<1.0			ug/L	
			Dissolved Lead (Pb)	2019/09/05	<0.0050			ug/L	
			Dissolved Lithium (Li)	2019/09/05	<0.50			ug/L	
			Dissolved Manganese (Mn)	2019/09/05	<0.050			ug/L	
			Dissolved Molybdenum (Mo)	2019/09/05	<0.050			ug/L	
			Dissolved Nickel (Ni)	2019/09/05	<0.020			ug/L	
			Dissolved Phosphorus (P)	2019/09/05	<2.0			ug/L	
			Dissolved Selenium (Se)	2019/09/05	<0.040			ug/L	
			Dissolved Silicon (Si)	2019/09/05	<50			ug/L	
			Dissolved Silver (Ag)	2019/09/05	<0.0050			ug/L	
			Dissolved Strontium (Sr)	2019/09/05	<0.050			ug/L	
			Dissolved Thallium (Tl)	2019/09/05	<0.0020			ug/L	
			Dissolved Tin (Sn)	2019/09/05	<0.20			ug/L	
			Dissolved Titanium (Ti)	2019/09/05	<0.50			ug/L	
Dissolved Uranium (U)	2019/09/05	<0.0020			ug/L				
Dissolved Vanadium (V)	2019/09/05	<0.20			ug/L				
Dissolved Zinc (Zn)	2019/09/05	<0.10			ug/L				
Dissolved Zirconium (Zr)	2019/09/05	<0.10			ug/L				
9574781	VBA	RPD [WK3086-04]	Dissolved Aluminum (Al)	2019/09/05	3.0		%	20	
			Dissolved Antimony (Sb)	2019/09/05	4.7		%	20	
			Dissolved Arsenic (As)	2019/09/05	0.60		%	20	
			Dissolved Barium (Ba)	2019/09/05	3.2		%	20	
			Dissolved Beryllium (Be)	2019/09/05	NC		%	20	
			Dissolved Bismuth (Bi)	2019/09/05	NC		%	20	
			Dissolved Boron (B)	2019/09/05	NC		%	20	
			Dissolved Cadmium (Cd)	2019/09/05	6.2		%	20	
			Dissolved Chromium (Cr)	2019/09/05	NC		%	20	
			Dissolved Cobalt (Co)	2019/09/05	2.1		%	20	
			Dissolved Copper (Cu)	2019/09/05	2.8		%	20	
			Dissolved Iron (Fe)	2019/09/05	1.1		%	20	
			Dissolved Lead (Pb)	2019/09/05	NC		%	20	
			Dissolved Lithium (Li)	2019/09/05	2.2		%	20	
			Dissolved Manganese (Mn)	2019/09/05	0.75		%	20	
			Dissolved Molybdenum (Mo)	2019/09/05	1.2		%	20	
			Dissolved Nickel (Ni)	2019/09/05	1.3		%	20	
			Dissolved Phosphorus (P)	2019/09/05	1.1		%	20	
			Dissolved Selenium (Se)	2019/09/05	2.5		%	20	
			Dissolved Silicon (Si)	2019/09/05	2.0		%	20	
			Dissolved Silver (Ag)	2019/09/05	NC		%	20	
			Dissolved Strontium (Sr)	2019/09/05	2.2		%	20	
			Dissolved Thallium (Tl)	2019/09/05	NC		%	20	
			Dissolved Tin (Sn)	2019/09/05	NC		%	20	



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Titanium (Ti)	2019/09/05	NC		%	20
			Dissolved Uranium (U)	2019/09/05	2.3		%	20
			Dissolved Vanadium (V)	2019/09/05	NC		%	20
			Dissolved Zinc (Zn)	2019/09/05	2.0		%	20
			Dissolved Zirconium (Zr)	2019/09/05	NC		%	20
9574781	VBA	RPD	Dissolved Aluminum (Al)	2019/09/10	1.0		%	20
			Dissolved Antimony (Sb)	2019/09/10	NC		%	20
			Dissolved Arsenic (As)	2019/09/10	NC		%	20
			Dissolved Barium (Ba)	2019/09/10	NC		%	20
			Dissolved Beryllium (Be)	2019/09/10	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/10	NC		%	20
			Dissolved Boron (B)	2019/09/10	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/10	NC		%	20
			Dissolved Chromium (Cr)	2019/09/10	NC		%	20
			Dissolved Cobalt (Co)	2019/09/10	NC		%	20
			Dissolved Copper (Cu)	2019/09/10	0.18		%	20
			Dissolved Iron (Fe)	2019/09/10	NC		%	20
			Dissolved Lead (Pb)	2019/09/10	NC		%	20
			Dissolved Lithium (Li)	2019/09/10	NC		%	20
			Dissolved Manganese (Mn)	2019/09/10	NC		%	20
			Dissolved Molybdenum (Mo)	2019/09/10	0.80		%	20
			Dissolved Nickel (Ni)	2019/09/10	NC		%	20
			Dissolved Phosphorus (P)	2019/09/10	NC		%	20
			Dissolved Selenium (Se)	2019/09/10	NC		%	20
			Dissolved Silicon (Si)	2019/09/10	NC		%	20
			Dissolved Silver (Ag)	2019/09/10	NC		%	20
			Dissolved Strontium (Sr)	2019/09/10	NC		%	20
			Dissolved Thallium (Tl)	2019/09/10	NC		%	20
			Dissolved Tin (Sn)	2019/09/10	NC		%	20
			Dissolved Titanium (Ti)	2019/09/10	NC		%	20
			Dissolved Uranium (U)	2019/09/10	NC		%	20
			Dissolved Vanadium (V)	2019/09/10	NC		%	20
			Dissolved Zinc (Zn)	2019/09/10	0.47		%	20
			Dissolved Zirconium (Zr)	2019/09/10	NC		%	20
			Dissolved Aluminum (Al)	2019/09/05	NC		%	20
			Dissolved Antimony (Sb)	2019/09/05	NC		%	20
			Dissolved Arsenic (As)	2019/09/05	NC		%	20
			Dissolved Barium (Ba)	2019/09/05	NC		%	20
			Dissolved Beryllium (Be)	2019/09/05	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/05	NC		%	20
			Dissolved Boron (B)	2019/09/05	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/05	NC		%	20
			Dissolved Chromium (Cr)	2019/09/05	NC		%	20
			Dissolved Cobalt (Co)	2019/09/05	NC		%	20
			Dissolved Copper (Cu)	2019/09/05	NC		%	20
			Dissolved Iron (Fe)	2019/09/05	NC		%	20
			Dissolved Lead (Pb)	2019/09/05	NC		%	20
			Dissolved Lithium (Li)	2019/09/05	NC		%	20
			Dissolved Manganese (Mn)	2019/09/05	NC		%	20
			Dissolved Molybdenum (Mo)	2019/09/05	NC		%	20
			Dissolved Nickel (Ni)	2019/09/05	NC		%	20
			Dissolved Phosphorus (P)	2019/09/05	NC		%	20
			Dissolved Selenium (Se)	2019/09/05	NC		%	20
			Dissolved Silicon (Si)	2019/09/05	NC		%	20
			Dissolved Silver (Ag)	2019/09/05	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Strontium (Sr)	2019/09/05	NC		%	20
			Dissolved Thallium (Tl)	2019/09/05	NC		%	20
			Dissolved Tin (Sn)	2019/09/05	NC		%	20
			Dissolved Titanium (Ti)	2019/09/05	NC		%	20
			Dissolved Uranium (U)	2019/09/05	NC		%	20
			Dissolved Vanadium (V)	2019/09/05	NC		%	20
			Dissolved Zinc (Zn)	2019/09/05	NC		%	20
			Dissolved Zirconium (Zr)	2019/09/05	NC		%	20
			Dissolved Aluminum (Al)	2019/09/05	14		%	20
			Dissolved Antimony (Sb)	2019/09/05	NC		%	20
			Dissolved Arsenic (As)	2019/09/05	NC		%	20
			Dissolved Barium (Ba)	2019/09/05	1.0		%	20
			Dissolved Beryllium (Be)	2019/09/05	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/05	NC		%	20
			Dissolved Boron (B)	2019/09/05	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/05	NC		%	20
			Dissolved Chromium (Cr)	2019/09/05	NC		%	20
			Dissolved Cobalt (Co)	2019/09/05	NC		%	20
			Dissolved Copper (Cu)	2019/09/05	6.8		%	20
			Dissolved Iron (Fe)	2019/09/05	0.51		%	20
			Dissolved Lead (Pb)	2019/09/05	10		%	20
			Dissolved Lithium (Li)	2019/09/05	NC		%	20
			Dissolved Manganese (Mn)	2019/09/05	0.64		%	20
			Dissolved Molybdenum (Mo)	2019/09/05	NC		%	20
			Dissolved Nickel (Ni)	2019/09/05	NC		%	20
			Dissolved Phosphorus (P)	2019/09/05	3.6		%	20
			Dissolved Selenium (Se)	2019/09/05	NC		%	20
			Dissolved Silicon (Si)	2019/09/05	NC		%	20
			Dissolved Silver (Ag)	2019/09/05	NC		%	20
			Dissolved Strontium (Sr)	2019/09/05	7.0		%	20
			Dissolved Thallium (Tl)	2019/09/05	NC		%	20
			Dissolved Tin (Sn)	2019/09/05	NC		%	20
			Dissolved Titanium (Ti)	2019/09/05	NC		%	20
			Dissolved Uranium (U)	2019/09/05	NC		%	20
			Dissolved Vanadium (V)	2019/09/05	NC		%	20
			Dissolved Zinc (Zn)	2019/09/05	3.0		%	20
			Dissolved Zirconium (Zr)	2019/09/05	NC		%	20
9574797	TSO	Matrix Spike	Total Suspended Solids	2019/09/05		104	%	80 - 120
9574797	TSO	Spiked Blank	Total Suspended Solids	2019/09/05		100	%	80 - 120
9574797	TSO	Method Blank	Total Suspended Solids	2019/09/05	<1.0		mg/L	
9574797	TSO	RPD [WK3093-02]	Total Suspended Solids	2019/09/05	7.1		%	20
9574810	TSO	Matrix Spike [WK3095-02]	Total Suspended Solids	2019/09/05		98	%	80 - 120
9574810	TSO	Spiked Blank	Total Suspended Solids	2019/09/05		99	%	80 - 120
9574810	TSO	Method Blank	Total Suspended Solids	2019/09/05	<1.0		mg/L	
9574810	TSO	RPD	Total Suspended Solids	2019/09/05	0		%	20
9574845	VBA	Matrix Spike	Total Aluminum (Al)	2019/09/05		111	%	80 - 120
			Total Antimony (Sb)	2019/09/05		99	%	80 - 120
			Total Arsenic (As)	2019/09/05		98	%	80 - 120
			Total Barium (Ba)	2019/09/05		99	%	80 - 120
			Total Beryllium (Be)	2019/09/05		98	%	80 - 120
			Total Bismuth (Bi)	2019/09/05		99	%	80 - 120
			Total Boron (B)	2019/09/05		99	%	80 - 120
			Total Cadmium (Cd)	2019/09/05		99	%	80 - 120
			Total Chromium (Cr)	2019/09/05		99	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Cobalt (Co)	2019/09/05		98	%	80 - 120
			Total Copper (Cu)	2019/09/05		97	%	80 - 120
			Total Iron (Fe)	2019/09/05		107	%	80 - 120
			Total Lead (Pb)	2019/09/05		102	%	80 - 120
			Total Lithium (Li)	2019/09/05		95	%	80 - 120
			Total Manganese (Mn)	2019/09/05		100	%	80 - 120
			Total Molybdenum (Mo)	2019/09/05		NC	%	80 - 120
			Total Nickel (Ni)	2019/09/05		99	%	80 - 120
			Total Phosphorus (P)	2019/09/05		102	%	80 - 120
			Total Selenium (Se)	2019/09/05		101	%	80 - 120
			Total Silicon (Si)	2019/09/05		101	%	80 - 120
			Total Silver (Ag)	2019/09/05		97	%	80 - 120
			Total Strontium (Sr)	2019/09/05		NC	%	80 - 120
			Total Thallium (Tl)	2019/09/05		101	%	80 - 120
			Total Tin (Sn)	2019/09/05		100	%	80 - 120
			Total Titanium (Ti)	2019/09/05		104	%	80 - 120
			Total Uranium (U)	2019/09/05		102	%	80 - 120
			Total Vanadium (V)	2019/09/05		100	%	80 - 120
			Total Zinc (Zn)	2019/09/05		97	%	80 - 120
			Total Zirconium (Zr)	2019/09/05		104	%	80 - 120
			Total Sulphur (S)	2019/09/05		102	%	80 - 120
9574845	VBA	Spiked Blank	Total Aluminum (Al)	2019/09/05		104	%	80 - 120
			Total Antimony (Sb)	2019/09/05		101	%	80 - 120
			Total Arsenic (As)	2019/09/05		98	%	80 - 120
			Total Barium (Ba)	2019/09/05		102	%	80 - 120
			Total Beryllium (Be)	2019/09/05		102	%	80 - 120
			Total Bismuth (Bi)	2019/09/05		101	%	80 - 120
			Total Boron (B)	2019/09/05		102	%	80 - 120
			Total Cadmium (Cd)	2019/09/05		101	%	80 - 120
			Total Chromium (Cr)	2019/09/05		101	%	80 - 120
			Total Cobalt (Co)	2019/09/05		99	%	80 - 120
			Total Copper (Cu)	2019/09/05		99	%	80 - 120
			Total Iron (Fe)	2019/09/05		103	%	80 - 120
			Total Lead (Pb)	2019/09/05		103	%	80 - 120
			Total Lithium (Li)	2019/09/05		102	%	80 - 120
			Total Manganese (Mn)	2019/09/05		101	%	80 - 120
			Total Molybdenum (Mo)	2019/09/05		102	%	80 - 120
			Total Nickel (Ni)	2019/09/05		101	%	80 - 120
			Total Phosphorus (P)	2019/09/05		102	%	80 - 120
			Total Selenium (Se)	2019/09/05		101	%	80 - 120
			Total Silicon (Si)	2019/09/05		103	%	80 - 120
			Total Silver (Ag)	2019/09/05		99	%	80 - 120
			Total Strontium (Sr)	2019/09/05		99	%	80 - 120
			Total Thallium (Tl)	2019/09/05		102	%	80 - 120
			Total Tin (Sn)	2019/09/05		102	%	80 - 120
			Total Titanium (Ti)	2019/09/05		98	%	80 - 120
			Total Uranium (U)	2019/09/05		103	%	80 - 120
			Total Vanadium (V)	2019/09/05		101	%	80 - 120
			Total Zinc (Zn)	2019/09/05		101	%	80 - 120
			Total Zirconium (Zr)	2019/09/05		101	%	80 - 120
			Total Sulphur (S)	2019/09/05		103	%	80 - 120
9574845	VBA	Method Blank	Total Aluminum (Al)	2019/09/05	<3.0		ug/L	
			Total Antimony (Sb)	2019/09/05	<0.020		ug/L	
			Total Arsenic (As)	2019/09/05	<0.020		ug/L	
			Total Barium (Ba)	2019/09/05	<0.050		ug/L	



BUREAU
VERITAS

BV Labs Job #: B973051
Report Date: 2019/09/12

GOLDEN PREDATOR MINING CORP.
Client Project #: SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2019/09/05	<0.010		ug/L	
			Total Bismuth (Bi)	2019/09/05	<0.010		ug/L	
			Total Boron (B)	2019/09/05	<10		ug/L	
			Total Cadmium (Cd)	2019/09/05	<0.0050		ug/L	
			Total Chromium (Cr)	2019/09/05	<0.10		ug/L	
			Total Cobalt (Co)	2019/09/05	<0.010		ug/L	
			Total Copper (Cu)	2019/09/05	<0.10		ug/L	
			Total Iron (Fe)	2019/09/05	<5.0		ug/L	
			Total Lead (Pb)	2019/09/05	<0.020		ug/L	
			Total Lithium (Li)	2019/09/05	<0.50		ug/L	
			Total Manganese (Mn)	2019/09/05	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/09/05	<0.050		ug/L	
			Total Nickel (Ni)	2019/09/05	<0.10		ug/L	
			Total Phosphorus (P)	2019/09/05	<5.0		ug/L	
			Total Selenium (Se)	2019/09/05	<0.040		ug/L	
			Total Silicon (Si)	2019/09/05	<50		ug/L	
			Total Silver (Ag)	2019/09/05	<0.010		ug/L	
			Total Strontium (Sr)	2019/09/05	<0.050		ug/L	
			Total Thallium (Tl)	2019/09/05	<0.0020		ug/L	
			Total Tin (Sn)	2019/09/05	<0.20		ug/L	
			Total Titanium (Ti)	2019/09/05	<2.0		ug/L	
			Total Uranium (U)	2019/09/05	<0.0050		ug/L	
			Total Vanadium (V)	2019/09/05	0.23, RDL=0.20 (4)		ug/L	
			Total Zinc (Zn)	2019/09/05	<1.0		ug/L	
			Total Zirconium (Zr)	2019/09/05	<0.10		ug/L	
			Total Sulphur (S)	2019/09/05	<600		ug/L	
9574845	VBA	RPD	Total Aluminum (Al)	2019/09/05	30 (2)		%	20
			Total Antimony (Sb)	2019/09/05	5.2		%	20
			Total Arsenic (As)	2019/09/05	10		%	20
			Total Barium (Ba)	2019/09/05	2.2		%	20
			Total Beryllium (Be)	2019/09/05	NC		%	20
			Total Bismuth (Bi)	2019/09/05	NC		%	20
			Total Boron (B)	2019/09/05	NC		%	20
			Total Cadmium (Cd)	2019/09/05	4.7		%	20
			Total Chromium (Cr)	2019/09/05	16		%	20
			Total Cobalt (Co)	2019/09/05	24 (2)		%	20
			Total Copper (Cu)	2019/09/05	6.2		%	20
			Total Iron (Fe)	2019/09/05	27 (2)		%	20
			Total Lead (Pb)	2019/09/05	8.1		%	20
			Total Lithium (Li)	2019/09/05	NC		%	20
			Total Manganese (Mn)	2019/09/05	8.4		%	20
			Total Molybdenum (Mo)	2019/09/05	2.0		%	20
			Total Nickel (Ni)	2019/09/05	13		%	20
			Total Phosphorus (P)	2019/09/05	11		%	20
			Total Selenium (Se)	2019/09/05	7.7		%	20
			Total Silicon (Si)	2019/09/05	4.3		%	20
			Total Silver (Ag)	2019/09/05	NC		%	20
			Total Strontium (Sr)	2019/09/05	0.075		%	20
			Total Thallium (Tl)	2019/09/05	17		%	20
			Total Tin (Sn)	2019/09/05	NC		%	20
			Total Titanium (Ti)	2019/09/05	NC		%	20
			Total Uranium (U)	2019/09/05	0.81		%	20
			Total Vanadium (V)	2019/09/05	NC		%	20
			Total Zinc (Zn)	2019/09/05	3.7		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Zirconium (Zr)	2019/09/05	NC		%	20
			Total Sulphur (S)	2019/09/05	1.4		%	20
9575356	MO5	Matrix Spike	Dissolved Chloride (Cl)	2019/09/04		93	%	80 - 120
9575356	MO5	Spiked Blank	Dissolved Chloride (Cl)	2019/09/04		104	%	80 - 120
9575356	MO5	Method Blank	Dissolved Chloride (Cl)	2019/09/04	0.50, RDL=0.50		mg/L	
9575356	MO5	RPD	Dissolved Chloride (Cl)	2019/09/04	0.80		%	20
9575358	MO5	Matrix Spike	Dissolved Chloride (Cl)	2019/09/04		95	%	80 - 120
9575358	MO5	Spiked Blank	Dissolved Chloride (Cl)	2019/09/04		95	%	80 - 120
9575358	MO5	Method Blank	Dissolved Chloride (Cl)	2019/09/04	<0.50		mg/L	
9575358	MO5	RPD	Dissolved Chloride (Cl)	2019/09/04	NC		%	20
9577479	FM0	Matrix Spike [WK3091-07]	Total Ammonia (N)	2019/09/06		92	%	80 - 120
9577479	FM0	Spiked Blank	Total Ammonia (N)	2019/09/06		109	%	80 - 120
9577479	FM0	Method Blank	Total Ammonia (N)	2019/09/06	<0.0050		mg/L	
9577479	FM0	RPD [WK3091-07]	Total Ammonia (N)	2019/09/06	NC		%	20
9586161	GTO	Matrix Spike [WK3086-08]	Free Cyanide	2019/09/12		100	%	80 - 120
9586161	GTO	Spiked Blank	Free Cyanide	2019/09/12		100	%	80 - 120
9586161	GTO	Method Blank	Free Cyanide	2019/09/12	<0.0010		mg/L	
9586161	GTO	RPD [WK3086-08]	Free Cyanide	2019/09/12	NC		%	20
9586162	GTO	Matrix Spike [WK3086-08]	Total Cyanide (CN)	2019/09/12		98	%	80 - 120
9586162	GTO	Spiked Blank	Total Cyanide (CN)	2019/09/12		98	%	80 - 120
9586162	GTO	Method Blank	Total Cyanide (CN)	2019/09/12	<0.0050		mg/L	
9586162	GTO	RPD [WK3086-08]	Total Cyanide (CN)	2019/09/12	NC		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method blank exceeds acceptance limits for Sr - 2X RDL acceptable for low level metals determination.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Method Blank exceeds acceptance limits for TI - 2X RDL acceptable for low level metals determination.

(4) Method Blank exceeds acceptance limits for V - 2X RDL acceptable for low level metals determination.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastasia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Spécialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BV Labs - Partial/Rush Results

Your Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Your C.O.C. #: 594657-02-01, 594657-01-01

Attention: Jillian Chown

Golden Predator Exploration
Suite 250-200 Burrard St
Vancouver, BC
CANADA V6C 3L6

Report Date: 2019/10/10
Report #: R2794799
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: B982249

Received: 2019/09/26, 10:40

Sample Matrix: Water
Samples Received: 16

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 2320 B m
Chloride/Sulphate by Auto Colourimetry	13	N/A	2019/09/30	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry	3	N/A	2019/10/01	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Cyanide SAD (strong acid dissociable) (1)	16	N/A	2019/10/01	CAL SOP-00270	SM 23 4500-CN m
Cyanide WAD (weak acid dissociable) (1)	16	N/A	2019/10/01	CAL SOP-00270	SM 23 4500-CN m
Carbon (DOC) -Lab Filtered (1, 2)	3	N/A	2019/10/03	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) (1, 2)	13	N/A	2019/10/03	AB SOP-00087	MMCW 119 1996 m
Conductance - Low Level	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 2510 B m
Hardness Total (calculated as CaCO3) (3)	9	N/A	2019/10/02	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	7	N/A	2019/10/03	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	16	N/A	2019/10/01	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	16	2019/09/30	2019/09/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	16	2019/09/30	2019/09/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	16	N/A	2019/10/01	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	16	N/A	2019/09/30	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	12	2019/09/30	2019/10/01	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2019/09/30	2019/10/02	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	9	N/A	2019/10/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	7	N/A	2019/10/03	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	3	N/A	2019/10/02	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (total), Calc. TKN, NO3, NO2 (1)	13	N/A	2019/10/03		Auto Calc
Nitrogen (total), Calc. TKN, NO3, NO2 (1)	2	N/A	2019/10/05		Auto Calc
Ammonia-N Low Level (Preserved) (1)	15	N/A	2019/10/03	AB SOP-00007	SM 23 4500 NH3 A G m
Ammonia-N Low Level (Preserved) (1)	1	N/A	2019/10/05	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	16	N/A	2019/09/28	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	16	N/A	2019/09/28	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	12	N/A	2019/09/28	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	4	N/A	2019/09/29	BBY WI-00033	Auto Calc



Your Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Your C.O.C. #: 594657-02-01, 594657-01-01

Attention: Jillian Chown

Golden Predator Exploration
 Suite 250-200 Burrard St
 Vancouver, BC
 CANADA V6C 3L6

Report Date: 2019/10/10
 Report #: R2794799
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: B982249

Received: 2019/09/26, 10:40

Sample Matrix: Water
 # Samples Received: 16

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Filter and HNO3 Preserve for Metals	15	N/A	2019/09/27	BBY7 WI-00004	SM 23 3030B m
pH @25°C (4)	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 4500-H+ B m
Total Dissolved Solids - Low Level (1)	10	2019/09/28	2019/09/28	AB SOP-00065	SM 23 2540 C m
Total Dissolved Solids - Low Level (1)	6	2019/09/30	2019/09/30	AB SOP-00065	SM 23 2540 C m
Total Kjeldahl Nitrogen (1)	13	2019/10/03	2019/10/03	AB SOP-00008	EPA 351.1 R1978 m
Total Kjeldahl Nitrogen (1)	2	2019/10/03	2019/10/04	AB SOP-00008	EPA 351.1 R1978 m
Total Phosphorus (1)	16	2019/10/03	2019/10/04	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR) (1)	1	2019/09/29	2019/09/29	AB SOP-00061	SM 23 2540 D m
Total Suspended Solids (NFR) (1)	15	2019/09/30	2019/09/30	AB SOP-00061	SM 23 2540 D m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

- (1) This test was performed by BV Labs Calgary Environmental
- (2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

Encryption Key

Diana Cruz
 Project Manager
 10 Oct 2019 15:11:40

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
 Customer Solutions, Western Canada Customer Experience Team
 Email: customersolutionswest@bvlab.com
 Phone# (604) 734 7276

=====
 BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	258	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	267	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.171	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	117	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	143	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	5.3	0.50	mg/L	+/- 0.65	2019/10/03	2019/10/03	KGH	9613066
pH	8.02	N/A	pH	+/- 0.116	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	6.8	1.0	mg/L	+/- 1.3	2019/09/29	2019/09/29	EH2	9607681
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.038	0.0050	mg/L	+/- 0.0051	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.171	0.020	mg/L	+/- 0.026	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.43	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0040	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.26	0.050	mg/L	+/- 0.080	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	536	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	346(1)	1.2	mg/L	+/- 12.0	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	27.8	0.50	ug/L	+/- 55.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	2.74	0.020	ug/L	+/- 0.257	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.37	0.020	ug/L	+/- 0.357	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	61.6	0.020	ug/L	+/- 5.38	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0923	0.0050	ug/L	+/- 0.0140	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.18	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.479	0.0050	ug/L	+/- 0.0541	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.799	0.050	ug/L	+/- 0.139	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	246	1.0	ug/L	+/- 24.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0088	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	8.50	0.50	ug/L	+/- 0.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	95.8	0.050	ug/L	+/- 9.35	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.41	0.050	ug/L	+/- 0.308	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	3.55	0.020	ug/L	+/- 0.888	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	8.8	2.0	ug/L	+/- 5.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.07	0.040	ug/L	+/- 0.332	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3470	50	ug/L	+/- 514	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	409	0.050	ug/L	+/- 30.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0067	0.0020	ug/L	+/- 0.0032	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.22	0.0020	ug/L	+/- 0.284	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.56	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	6.21	0.10	ug/L	+/- 2.18	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.21	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	60.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	25.9	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.12	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	2.37	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	51.5	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	102	3.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Antimony (Sb)	2.72	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Arsenic (As)	4.06	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Barium (Ba)	66.3	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Beryllium (Be)	0.011	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Boron (B)	10	10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Cadmium (Cd)	0.123	0.0050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Chromium (Cr)	0.28	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Cobalt (Co)	0.549	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Copper (Cu)	1.04	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Iron (Fe)	488	5.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Lead (Pb)	0.103	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Lithium (Li)	9.05	0.50	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Manganese (Mn)	102	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Molybdenum (Mo)	2.41	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Nickel (Ni)	3.83	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Phosphorus (P)	14.4	5.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Selenium (Se)	2.13	0.040	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Silicon (Si)	3370	50	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Strontium (Sr)	403	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Thallium (Tl)	0.0086	0.0020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Titanium (Ti)	2.4	2.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Uranium (U)	2.08	0.0050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Vanadium (V)	0.86	0.20	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Zinc (Zn)	7.9	1.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Zirconium (Zr)	0.21	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Calcium (Ca)	62.6	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.11	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	2.45	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	52.4	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	52400	600	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	347	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	375	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	188	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	229	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	8.23	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	11	1.0	mg/L	+/- 1.8	2019/09/30	2019/09/30	EH2	9608060
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	0.66	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Dissolved Sulphate (SO4)	180	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Nutrients								
Total Ammonia (N)	0.032	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.066	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.066	0.050	mg/L	+/- 0.057	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	681	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	468(1)	1.1	mg/L	+/- 16.2	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.62	0.50	ug/L	+/- 4.69	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	30.7	0.020	ug/L	+/- 2.84	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	27.5	0.020	ug/L	+/- 2.83	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	37.4	0.020	ug/L	+/- 3.27	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cadmium (Cd)	0.0104	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0358	0.0050	ug/L	+/- 0.0088	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.137	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1.7	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0080	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	8.55	0.50	ug/L	+/- 0.73	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	6.84	0.050	ug/L	+/- 0.691	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	4.81	0.050	ug/L	+/- 0.604	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.320	0.020	ug/L	+/- 0.122	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.2	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.70	0.040	ug/L	+/- 0.273	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2960	50	ug/L	+/- 439	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	644	0.050	ug/L	+/- 47.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0778	0.0020	ug/L	+/- 0.0093	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	9.54	0.0020	ug/L	+/- 1.21	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.69	0.10	ug/L	+/- 1.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	81.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	34.8	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.48	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.32	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	56.8	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	113	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	33.0	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	36.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	44.7	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.015	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	0.015	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0259	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.17	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Cobalt (Co)	0.229	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.41	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	241	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	1.12	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	9.31	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	32.2	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	4.87	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.63	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	7.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.79	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	3230	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	675	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0938	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.22	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	2.2	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	9.49	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.57	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	2.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.15	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	88.8	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	37.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	1.54	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	1.39	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	61.1	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	61100	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0024	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0091	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	213	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	226	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	147	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	179	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	8.23	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	3.1	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	0.81	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	87	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.050	0.0050	mg/L	+/- 0.0067	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.12	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0034	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.12	0.050	mg/L	+/- 0.061	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	442	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	276(1)	1.2	mg/L	+/- 9.6	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.39	0.50	ug/L	+/- 4.26	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	95.5	0.020	ug/L	+/- 8.82	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	17.5	0.020	ug/L	+/- 1.81	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	109	0.020	ug/L	+/- 9.52	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cadmium (Cd)	0.0207	0.0050	ug/L	+/- 0.0077	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0610	0.0050	ug/L	+/- 0.0105	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.445	0.050	ug/L	+/- 0.125	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1.6	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0107	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	2.98	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	58.4	0.050	ug/L	+/- 5.71	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	4.01	0.050	ug/L	+/- 0.506	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.532	0.020	ug/L	+/- 0.165	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	5.3	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	3.97	0.040	ug/L	+/- 0.630	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2690	50	ug/L	+/- 400	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	447	0.050	ug/L	+/- 33.3	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0682	0.0020	ug/L	+/- 0.0083	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	7.88	0.0020	ug/L	+/- 1.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.23	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	2.34	0.10	ug/L	+/- 1.75	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	51.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	20.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.76	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.691	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	27.5	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	87.9	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	102	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	19.4	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	121	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0292	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.19	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Cobalt (Co)	0.088	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.64	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	91.9	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.162	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	3.17	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	63.6	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	4.13	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.66	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	10.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	3.99	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2810	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	429	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0716	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.24	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	7.58	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.63	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	2.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	55.5	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	21.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	1.73	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.73	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	28.9	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	28900	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0031	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	208	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	220	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.87	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	4.09	N/A	pH	+/- 0.0593	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.0	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	3.9	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	220(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	<0.0050	0.0050	mg/L	N/A	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.20	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0073	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.20	0.050	mg/L	+/- 0.071	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	528	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	372(1)	1.2	mg/L	+/- 12.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1850	0.50	ug/L	+/- 3600	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	1.69	0.020	ug/L	+/- 0.161	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	16.2	0.020	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	29.7	0.020	ug/L	+/- 2.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	4.85	0.010	ug/L	+/- 0.699	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	1.69	0.0050	ug/L	+/- 0.218	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Chromium (Cr)	0.21	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	24.0	0.0050	ug/L	+/- 2.64	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	76.5	0.050	ug/L	+/- 6.32	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1510	1.0	ug/L	+/- 146	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.126	0.0050	ug/L	+/- 0.0171	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	7.16	0.50	ug/L	+/- 0.62	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1410	0.050	ug/L	+/- 137	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	78.6	0.020	ug/L	+/- 19.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	6.9	2.0	ug/L	+/- 5.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.42	0.040	ug/L	+/- 0.386	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	7800	50	ug/L	+/- 1150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	0.0108	0.0050	ug/L	+/- 0.0119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	334	0.050	ug/L	+/- 24.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.113	0.0020	ug/L	+/- 0.0129	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	1.11	0.0020	ug/L	+/- 0.142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	188	0.10	ug/L	+/- 37.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	45.3	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	23.0	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	2.44	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.700	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	74.8	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	2010	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	1.82	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	17.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	30.5	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	5.20	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	12	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	1.77	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.21	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	23.5	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Copper (Cu)	80.4	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	1610	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.132	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	7.54	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	1420	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	79.8	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	17.9	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	2.51	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	8540	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	0.016	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	336	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.108	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	1.11	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	190	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	48.3	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	24.1	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	2.37	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.72	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	80.2	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	80200	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0059	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0075	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Dissolved Hardness (CaCO3)	617	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	650	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	57.5	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	70.1	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.61	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	7.40	N/A	pH	+/- 0.107	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	5.5	1.0	mg/L	+/- 1.1	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	550(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.025	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.062	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0062	0.0030	mg/L	+/- 0.0037	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.062	0.050	mg/L	+/- 0.057	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	1170	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	951(1)	1.1	mg/L	+/- 32.8	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.54	0.50	ug/L	+/- 4.53	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	15.2	0.020	ug/L	+/- 1.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	1.82	0.020	ug/L	+/- 0.200	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	20.3	0.020	ug/L	+/- 1.78	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.038	0.010	ug/L	+/- 0.010	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	16	10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.459	0.0050	ug/L	+/- 0.0598	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cobalt (Co)	11.4	0.0050	ug/L	+/- 1.25	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.321	0.050	ug/L	+/- 0.121	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	108	1.0	ug/L	+/- 10.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	7.47	0.50	ug/L	+/- 0.64	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	635	0.050	ug/L	+/- 61.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	0.496	0.050	ug/L	+/- 0.080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	52.2	0.020	ug/L	+/- 12.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	2.4	2.0	ug/L	+/- 5.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	0.215	0.040	ug/L	+/- 0.048	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3340	50	ug/L	+/- 495	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1040	0.050	ug/L	+/- 77.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.126	0.0020	ug/L	+/- 0.0142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	0.925	0.0020	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	59.8	0.10	ug/L	+/- 12.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	159	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	53.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	3.92	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.15	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	186	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	40.6	0.50	ug/L	+/- 4.00	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	17.0	0.020	ug/L	+/- 1.58	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	61.0	0.020	ug/L	+/- 6.27	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	21.8	0.020	ug/L	+/- 1.91	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	0.129	0.010	ug/L	+/- 0.020	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	18	10	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	0.562	0.0050	ug/L	+/- 0.0757	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	11.6	0.0050	ug/L	+/- 1.27	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	1.03	0.050	ug/L	+/- 0.118	2019/10/02	2019/10/02	AA1	9610472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Iron (Fe)	1880	1.0	ug/L	+/- 201	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	0.0384	0.0050	ug/L	+/- 0.0074	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	8.42	0.50	ug/L	+/- 1.02	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	659	0.050	ug/L	+/- 64.2	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	0.549	0.050	ug/L	+/- 0.067	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	56.3	0.020	ug/L	+/- 5.00	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	6.7	2.0	ug/L	+/- 5.7	2019/10/02	2019/10/02	AA1	9610472
Total Selenium (Se)	0.236	0.040	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	3500	50	ug/L	+/- 518	2019/10/02	2019/10/02	AA1	9610472
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	1060	0.050	ug/L	+/- 79.2	2019/10/02	2019/10/02	AA1	9610472
Total Thallium (Tl)	0.122	0.0020	ug/L	+/- 0.0139	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	0.63	0.50	ug/L	+/- 0.87	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	0.953	0.0020	ug/L	+/- 0.122	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	71.0	0.10	ug/L	+/- 15.0	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	167	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	56.6	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	3.90	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	1.22	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	196	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0021	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0030	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	522	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	542	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Nitrate (N)	0.036	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	134	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	163	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.76	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	8.15	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.4	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	360(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.029	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.036	0.020	mg/L	+/- <RDL	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.14	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0043	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.10	0.050	mg/L	+/- 0.060	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	986	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	750(1)	1.1	mg/L	+/- 25.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.64	0.50	ug/L	+/- 4.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.57	0.020	ug/L	+/- 0.334	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	33.1	0.020	ug/L	+/- 3.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	26.4	0.020	ug/L	+/- 2.31	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0161	0.0050	ug/L	+/- 0.0075	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0159	0.0050	ug/L	+/- 0.0080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.185	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Iron (Fe)	2.4	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	1.23	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1.71	0.050	ug/L	+/- 0.201	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.12	0.050	ug/L	+/- 0.151	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.373	0.020	ug/L	+/- 0.132	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.3	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	28.8	0.040	ug/L	+/- 4.54	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2070	50	ug/L	+/- 308	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1060	0.050	ug/L	+/- 79.1	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0433	0.0020	ug/L	+/- 0.0059	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	3.88	0.0020	ug/L	+/- 0.495	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.21	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.46	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	117	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	55.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.926	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.426	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	130	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	80.4	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.67	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	37.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	33.3	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0234	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.16	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.046	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.44	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	109	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.211	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Lithium (Li)	1.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	5.30	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	1.08	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.54	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	12.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	29.4	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2230	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1110	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0511	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	4.8	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	3.78	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.36	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	123	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	57.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	0.96	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.49	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	136	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	136000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0050	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9161 DUPLICATE (DUP)								
Sampling Date	2019/09/24 09:15							
Matrix	WATER							
Sample #	DUPLICATE (DUP)							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	518	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	554	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date	2019/09/24 09:15							
Matrix	WATER							
Sample #	DUPLICATE (DUP)							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (Total as CaCO3)	135	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	165	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.99	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	8.16	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	390(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.016	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	<0.055	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	<0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	982	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	752(1)	1.0	mg/L	+/- 26.0	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.65	0.50	ug/L	+/- 4.74	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.50	0.020	ug/L	+/- 0.328	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	33.2	0.020	ug/L	+/- 3.41	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	26.5	0.020	ug/L	+/- 2.32	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0127	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0168	0.0050	ug/L	+/- 0.0080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.194	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	2.8	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date 2019/09/24 09:15								
Matrix WATER								
Sample # DUPLICATE (DUP)								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Lithium (Li)	1.18	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1.58	0.050	ug/L	+/- 0.190	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.04	0.050	ug/L	+/- 0.142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.364	0.020	ug/L	+/- 0.130	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.1	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	29.2	0.040	ug/L	+/- 4.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2040	50	ug/L	+/- 304	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1060	0.050	ug/L	+/- 78.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0433	0.0020	ug/L	+/- 0.0059	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	3.90	0.0020	ug/L	+/- 0.498	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.23	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.38	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	117	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	55.0	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.908	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.423	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	128	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	46.4	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.71	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	39.3	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	32.4	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0230	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.12	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.039	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.39	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	72.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.169	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	1.55	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	4.90	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date 2019/09/24 09:15								
Matrix WATER								
Sample # DUPLICATE (DUP)								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Molybdenum (Mo)	1.07	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.44	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	9.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	29.7	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2250	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1120	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0500	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	3.2	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	3.84	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.27	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	126	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	58.1	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	0.98	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.46	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	137	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	137000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0043	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9162 BC 28A								
Sampling Date 2019/09/24 09:30								
Matrix WATER								
Sample # BC 28A								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	1340	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	1390	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	434	20	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	139	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A								
Sampling Date	2019/09/24 09:30							
Matrix	WATER							
Sample #	BC 28A							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	170	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.496(2)	0.0050	mg/L	+/- 0.0460	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.0310	0.00050	mg/L	+/- 0.00590	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	3.7	0.50	mg/L	+/- 0.51	2019/10/03	2019/10/03	KGH	9613066
pH	8.06	N/A	pH	+/- 0.117	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.5	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	28	1.0	mg/L	+/- 1.4	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	980(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.030	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	434(2)	20	mg/L	+/- 67	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	430	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.10	0.0030	mg/L	+/- 0.015	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	4510	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	3720(1)	1.1	mg/L	+/- 128	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	19	10	ug/L	+/- 38	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	2010	0.40	ug/L	+/- 185	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	267	0.40	ug/L	+/- 27.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	37.7	0.40	ug/L	+/- 3.29	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.32	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	2.2	2.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	679	0.10	ug/L	+/- 74.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	2.0	1.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	197	20	ug/L	+/- 20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A								
Sampling Date	2019/09/24 09:30							
Matrix	WATER							
Sample #	BC 28A							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Manganese (Mn)	22.1	1.0	ug/L	+/- 2.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	15.8	1.0	ug/L	+/- 2.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	10.4	0.40	ug/L	+/- 2.57	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	65	40	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	177	0.80	ug/L	+/- 27.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4410	1000	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1810	1.0	ug/L	+/- 135	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.323	0.040	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	28.3	0.040	ug/L	+/- 3.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	14.0	2.0	ug/L	+/- 3.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	383	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	92.6	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	6.2	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	453	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	319	60	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	<60	60	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	2180	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	283	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	39.2	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.42	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	698	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.4	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	250	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.40	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	22.1	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	18.3	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A								
Sampling Date	2019/09/24 09:30							
Matrix	WATER							
Sample #	BC 28A							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Nickel (Ni)	10.8	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	<100	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	180	0.80	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	4320	1000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1890	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.321	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<40	40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	28.5	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	23	20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	399	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	95.1	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	5.5	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	477	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	336	60	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	336000	12000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0345	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0254	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.372	0.0050	mg/L	+/- 0.0203	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	1040	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	1090	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	272	4.0	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	67.6	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Bicarbonate (HCO3)	82.5	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.00587	0.00050	mg/L	+/- 0.00404	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.00421	0.00050	mg/L	+/- 0.00086	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	6.3	0.50	mg/L	+/- 0.74	2019/10/03	2019/10/03	KGH	9613066
pH	7.60	N/A	pH	+/- 0.110	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	9.8	1.0	mg/L	+/- 1.6	2019/09/30	2019/09/30	EH2	9608536
Anions								
Dissolved Chloride (Cl)	20	1.0	mg/L	+/- 1.2	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	850(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.075	0.0050	mg/L	+/- 0.010	2019/10/05	2019/10/05	FM0	9615091
Nitrate plus Nitrite (N)	272(2)	4.0	mg/L	+/- 42.0	2019/09/28	2019/09/28	MO5	9607473
Total Phosphorus (P)	0.024	0.0030	mg/L	+/- 0.0052	2019/10/03	2019/10/04	MB5	9613104
Physical Properties								
Conductivity	3520	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	2850(1)	1.2	mg/L	+/- 98.3	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	60	10	ug/L	+/- 118	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	1770	0.40	ug/L	+/- 164	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	164	0.40	ug/L	+/- 16.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	32.6	0.40	ug/L	+/- 2.85	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	419	0.10	ug/L	+/- 46.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	2.0	1.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	20	20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	11.4	1.0	ug/L	+/- 1.1	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	17.7	1.0	ug/L	+/- 2.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	6.89	0.40	ug/L	+/- 1.70	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Phosphorus (P)	<40	40	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	128	0.80	ug/L	+/- 20.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	<1000	1000	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1460	1.0	ug/L	+/- 109	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.219	0.040	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	21.1	0.040	ug/L	+/- 2.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	2.5	2.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	288	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	79.1	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	4.8	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	345	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	292	60	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	83	30	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	1920	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	172	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	35.4	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<100	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	447	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	53	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	5.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	30.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	18.5	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	6.8	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	<50	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	128	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silicon (Si)	<500	500	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1520	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.225	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<20	20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	20.7	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	301	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	82.0	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	4.8	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	361	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	298	30	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	298000	6000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0060	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0030	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.156	0.0050	mg/L	+/- 0.0086	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	431	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	410	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	125	2.0	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	31.1	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	37.9	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Strong Acid Dissoc. Cyanide (CN)	0.0390	0.00050	mg/L	+/- 0.00538	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.0273	0.00050	mg/L	+/- 0.00519	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	2.9	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	6.97	N/A	pH	+/- 0.101	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	3.0	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	13	1.0	mg/L	+/- 1.0	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	410(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.18	0.0050	mg/L	+/- 0.024	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	125(2)	2.0	mg/L	+/- 19.3	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	130	0.055	mg/L	N/A	2019/10/05	2019/10/05		9606024
Total Phosphorus (P)	0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.50(3)	0.50	mg/L	N/A	2019/10/03	2019/10/04	JLD	9612872
Physical Properties								
Conductivity	1850	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	1390(1)	1.1	mg/L	+/- 47.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	6.0	2.5	ug/L	+/- 13.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	712	0.10	ug/L	+/- 65.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	14.8	0.10	ug/L	+/- 1.53	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	68.7	0.10	ug/L	+/- 6.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<50	50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	36.1	0.025	ug/L	+/- 3.96	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.59	0.25	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	5.3	5.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<2.5	2.5	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	2.13	0.25	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	9.40	0.25	ug/L	+/- 1.17	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.69	0.10	ug/L	+/- 0.20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	13	10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Selenium (Se)	65.3	0.20	ug/L	+/- 10.3	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	737	250	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	709	0.25	ug/L	+/- 52.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.026	0.010	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<2.5	2.5	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	6.89	0.010	ug/L	+/- 0.878	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.80	0.50	ug/L	+/- 1.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	109	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	38.9	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	3.35	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	195	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	148	15	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	7.8	2.5	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	695	0.10	ug/L	+/- 64.2	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	13.8	0.10	ug/L	+/- 1.43	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	63.3	0.10	ug/L	+/- 5.53	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	<50	50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	33.2	0.025	ug/L	+/- 3.64	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	0.54	0.25	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Iron (Fe)	6.2	5.0	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	<2.5	2.5	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	3.04	0.25	ug/L	+/- 0.33	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	8.13	0.25	ug/L	+/- 0.96	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	0.49	0.10	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	<10	10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Selenium (Se)	58.5	0.20	ug/L	+/- 7.82	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	664	250	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	649	0.25	ug/L	+/- 48.3	2019/10/02	2019/10/02	AA1	9610472
Total Thallium (Tl)	0.029	0.010	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	<2.5	2.5	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	6.09	0.010	ug/L	+/- 0.775	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	1.29	0.50	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	105	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	36.1	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	3.19	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	184	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	144	15	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Dissolved Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	4.84	N/A	pH	+/- 0.0702	2019/10/01	2019/10/01	CGP	9609476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	EH2	9609259
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	<0.50	0.50	mg/L	N/A	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	1.4	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.039	0.0050	mg/L	+/- 0.0053	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	<0.055	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	<0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	<1.0	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	<0.040	0.040	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	<50	50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	<3.0	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	<10	10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Iron (Fe)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	<2.0	2.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Selenium (Se)	<0.040	0.040	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	<50	50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date 2019/09/26 10:40								
Matrix WATER								
Sample # TRIP BLANK								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	<0.0020	0.0020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	<3.0	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9166 BC 02								
Sampling Date 2019/09/24 11:55								
Matrix WATER								
Sample # BC 02								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	533	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	567	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	3.14	0.10	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	196	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	239	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.00105	0.00050	mg/L	+/- 0.00400	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.00071	0.00050	mg/L	+/- <RDL	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	3.8	0.50	mg/L	+/- 0.52	2019/10/03	2019/10/03	KGH	9613066
pH	8.28	N/A	pH	+/- 0.120	2019/10/01	2019/10/01	CGP	9609476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Total Suspended Solids	8.9	1.0	mg/L	+/- 1.5	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	2.1	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	350(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.058	0.0050	mg/L	+/- 0.0078	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	3.14(2)	0.10	mg/L	+/- 0.48	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	3.5	0.055	mg/L	N/A	2019/10/05	2019/10/05		9606024
Total Phosphorus (P)	0.0055	0.0030	mg/L	+/- 0.0037	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.37(1)	0.25	mg/L	+/- <RDL	2019/10/03	2019/10/04	JLD	9612872
Physical Properties								
Conductivity	1040	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	790	1.0	mg/L	+/- 27.3	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.56	0.50	ug/L	+/- 8.35	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	0.611	0.020	ug/L	+/- 0.063	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	0.374	0.020	ug/L	+/- 0.063	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	50.3	0.020	ug/L	+/- 4.39	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0095	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	5.88	0.0050	ug/L	+/- 0.646	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.423	0.050	ug/L	+/- 0.124	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	87.5	1.0	ug/L	+/- 9.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	15.8	0.50	ug/L	+/- 1.31	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	41.2	0.050	ug/L	+/- 4.04	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	0.415	0.050	ug/L	+/- 0.071	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.813	0.020	ug/L	+/- 0.229	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	5.8	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	4.62	0.040	ug/L	+/- 0.732	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4690	50	ug/L	+/- 695	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	342	0.050	ug/L	+/- 25.4	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.58	0.0020	ug/L	+/- 0.330	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.44	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.53	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	129	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	51.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	2.01	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	9.64	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	117	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	171	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	0.633	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	0.469	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	56.8	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	11	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0172	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.26	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	6.06	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.71	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	338	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.173	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	19.6	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	43.5	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	0.458	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	1.05	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	13.8	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	4.78	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	5750	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	358	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0028	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.21	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Titanium (Ti)	6.5	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.54	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.63	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	1.4	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	136	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	54.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	2.04	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	10.4	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	128	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	128000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9609053
WO9167 BC 03								
Sampling Date	2019/09/24 10:45							
Matrix	WATER							
Sample #	BC 03							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	265	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.167	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	138	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	169	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.7	0.50	mg/L	+/- 0.59	2019/10/03	2019/10/03	KGH	9613066
pH	8.15	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	11	1.0	mg/L	+/- 1.8	2019/09/30	2019/09/30	EH2	9609259

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03								
Sampling Date	2019/09/24 10:45							
Matrix	WATER							
Sample #	BC 03							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.021	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.167	0.020	mg/L	+/- 0.026	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.38	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0069	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.22	0.050	mg/L	+/- 0.074	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	559	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	377(1)	1.1	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	50.5	0.50	ug/L	+/- 99.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	4.38	0.020	ug/L	+/- 0.409	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	1.84	0.020	ug/L	+/- 0.202	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	50.8	0.020	ug/L	+/- 4.44	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.036	0.010	ug/L	+/- 0.010	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0537	0.0050	ug/L	+/- 0.0100	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.13	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	1.20	0.0050	ug/L	+/- 0.133	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	1.16	0.050	ug/L	+/- 0.158	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	196	1.0	ug/L	+/- 19.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0122	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	13.2	0.50	ug/L	+/- 1.10	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	82.1	0.050	ug/L	+/- 8.01	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.47	0.050	ug/L	+/- 0.316	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	5.73	0.020	ug/L	+/- 1.42	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	14.0	2.0	ug/L	+/- 6.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.48	0.040	ug/L	+/- 0.239	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4160	50	ug/L	+/- 617	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	329	0.050	ug/L	+/- 24.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0022	0.0020	ug/L	+/- 0.0031	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

- (1) Detection limits raised due to insufficient sample volume.
 - (2) Detection limits raised due to dilution to bring analyte within the calibrated range.
 - (3) Detection limits raised due to insufficient sample volume.
- Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03								
Sampling Date	2019/09/24 10:45							
Matrix	WATER							
Sample #	BC 03							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Titanium (Ti)	0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.13	0.0020	ug/L	+/- 0.272	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.51	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	8.34	0.10	ug/L	+/- 2.49	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.16	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	65.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.35	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.37	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	47.6	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	251	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	4.73	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	3.40	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	57.9	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.062	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0907	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.45	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	1.52	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.72	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	662	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.172	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	15.1	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	104	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	2.61	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	6.88	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	23.8	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.57	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	4830	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	338	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0067	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.22	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	8.3	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.13	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03 Sampling Date 2019/09/24 10:45 Matrix WATER Sample # BC 03								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Vanadium (V)	1.08	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	13.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.15	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	70.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	27.2	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.40	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	3.62	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	51.9	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	51900	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9168 BC-01 Sampling Date 2019/09/24 15:00 Matrix WATER Sample # BC-01								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	267	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.220	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	140	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	171	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.8	0.50	mg/L	+/- 0.60	2019/10/03	2019/10/03	KGH	9613066
pH	8.12	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	56	1.0	mg/L	+/- 8.2	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01								
Sampling Date	2019/09/24 15:00							
Matrix	WATER							
Sample #	BC-01							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Sulphate (SO4)	150	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Nutrients								
Total Ammonia (N)	0.024	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.220	0.020	mg/L	+/- 0.034	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.49	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.028	0.0030	mg/L	+/- 0.0056	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.27	0.050	mg/L	+/- 0.082	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	557	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	376	1.0	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	17.8	0.50	ug/L	+/- 36.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.47	0.020	ug/L	+/- 0.325	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.44	0.020	ug/L	+/- 0.364	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	52.3	0.020	ug/L	+/- 4.57	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.011	0.010	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0205	0.0050	ug/L	+/- 0.0076	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.18	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.481	0.0050	ug/L	+/- 0.0543	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.943	0.050	ug/L	+/- 0.146	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	145	1.0	ug/L	+/- 14.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0111	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	11.4	0.50	ug/L	+/- 0.95	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	40.8	0.050	ug/L	+/- 4.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	3.20	0.050	ug/L	+/- 0.406	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.68	0.020	ug/L	+/- 0.678	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	9.7	2.0	ug/L	+/- 6.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.56	0.040	ug/L	+/- 0.251	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4630	50	ug/L	+/- 686	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	314	0.050	ug/L	+/- 23.3	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01								
Sampling Date	2019/09/24 15:00							
Matrix	WATER							
Sample #	BC-01							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Uranium (U)	2.43	0.0020	ug/L	+/- 0.311	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.81	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	1.42	0.10	ug/L	+/- 1.70	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.15	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	66.3	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.32	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.80	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	46.0	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	722	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.61	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	5.60	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	77.4	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.047	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0553	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	1.16	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	1.12	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.56	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	1530	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.488	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	13.1	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	91.9	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	3.05	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	4.45	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	47.1	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.64	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	6450	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	322	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0091	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	27.7	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.40	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	2.76	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01								
Sampling Date	2019/09/24 15:00							
Matrix	WATER							
Sample #	BC-01							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Zinc (Zn)	6.9	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.20	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	72.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.0	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.36	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	4.10	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	48.5	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	48500	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	266	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.236	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	141	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	171	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.8	0.50	mg/L	+/- 0.61	2019/10/03	2019/10/03	KGH	9613066
pH	8.16	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	17	1.0	mg/L	+/- 2.6	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Dissolved Sulphate (SO4)	150	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Nutrients								
Total Ammonia (N)	0.018	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.236	0.020	mg/L	+/- 0.037	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.48	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.013	0.0030	mg/L	+/- 0.0041	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.24	0.050	mg/L	+/- 0.078	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	553	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	375	1.0	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	17.9	0.50	ug/L	+/- 36.1	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.46	0.020	ug/L	+/- 0.324	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.33	0.020	ug/L	+/- 0.353	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	51.5	0.020	ug/L	+/- 4.50	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0166	0.0050	ug/L	+/- 0.0075	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.13	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.471	0.0050	ug/L	+/- 0.0533	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.892	0.050	ug/L	+/- 0.143	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	127	1.0	ug/L	+/- 12.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0114	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	11.5	0.50	ug/L	+/- 0.96	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	38.0	0.050	ug/L	+/- 3.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.97	0.050	ug/L	+/- 0.377	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.50	0.020	ug/L	+/- 0.633	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	9.6	2.0	ug/L	+/- 6.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.57	0.040	ug/L	+/- 0.253	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4670	50	ug/L	+/- 691	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	317	0.050	ug/L	+/- 23.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.41	0.0020	ug/L	+/- 0.308	2019/09/30	2019/09/30	VCN	9608530

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Vanadium (V)	0.78	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	1.13	0.10	ug/L	+/- 1.69	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.15	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	65.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.9	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.30	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.79	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	46.2	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	375	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.78	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	4.84	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	65.8	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.031	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0416	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.69	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.802	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.74	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	878	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.277	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	13.0	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	63.9	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	3.15	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	3.57	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	26.4	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.64	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	5800	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	322	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0058	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	13.4	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.49	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	1.78	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	4.3	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Zirconium (Zr)	0.17	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	72.3	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.4	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.33	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	4.02	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	50.7	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	50700	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	313	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	306	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.225	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	147	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	179	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.2	0.50	mg/L	+/- 0.56	2019/10/03	2019/10/03	KGH	9613066
pH	8.20	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.7	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Nutrients								
Total Ammonia (N)	0.013	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.225	0.020	mg/L	+/- 0.035	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.45	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0071	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.22	0.050	mg/L	+/- 0.074	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	597	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	407	1.0	mg/L	+/- 14.1	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	4.26	0.50	ug/L	+/- 9.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	0.302	0.020	ug/L	+/- 0.036	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	0.231	0.020	ug/L	+/- 0.053	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	48.1	0.020	ug/L	+/- 4.20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0912	0.0050	ug/L	+/- 0.0139	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0383	0.0050	ug/L	+/- 0.0090	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	1.13	0.050	ug/L	+/- 0.156	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	17.8	1.0	ug/L	+/- 2.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0076	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	2.68	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	7.72	0.050	ug/L	+/- 0.776	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.95	0.050	ug/L	+/- 0.252	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.48	0.020	ug/L	+/- 0.629	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	4.9	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.90	0.040	ug/L	+/- 0.463	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3150	50	ug/L	+/- 468	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	319	0.050	ug/L	+/- 23.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0022	0.0020	ug/L	+/- 0.0031	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.37	0.0020	ug/L	+/- 0.302	2019/09/30	2019/09/30	VCN	9608530



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Vanadium (V)	0.92	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	9.42	0.10	ug/L	+/- 2.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	78.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	28.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.793	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.57	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	55.4	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	39	15	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	0.26	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	0.19	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	49.1	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<50	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.117	0.025	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.071	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.34	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	81	25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	3.1	2.5	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	11.9	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	1.74	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	2.85	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	<25	25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	2.93	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	3160	250	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	312	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.19	0.025	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	12.2	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	74.9	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	29.0	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	<1.3	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	1.6	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	56	15	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	55900	3000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0029	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768

BV Labs - Partial/Rush Results



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	0.7°C
Package 3	0.7°C
Package 4	0.7°C
Package 5	3.0°C

DOC on all samples added as per client request received 2019/09/27.

Sample WO9155 [BC-04] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9156 [BC-17] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9157 [BC-10] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9158 [BC 51W] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9159 [BC 12] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9160 [BC 15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9161 [DUPLICATE (DUP)] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9162 [BC 28A] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9163 [BC 28B] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9164 [BC 28] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9166 [BC 02] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

BV Labs - Partial/Rush Results

Sample WO9167 [BC 03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9168 [BC-01] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9169 [BC-37] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9170 [BC-34] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

- Sample WO9162 [BC 28A] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9162 [BC 28A] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9163 [BC 28B] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9163 [BC 28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9164 [BC 28] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9164 [BC 28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
- Sample WO9170 [BC-34] Elements by ICPMS Digested LL (total): RDL raised due to limited initial sample amount.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9607361	EH2	Matrix Spike	Total Dissolved Solids	2019/09/28		99	%	80 - 120
9607361	EH2	Spiked Blank	Total Dissolved Solids	2019/09/28		112	%	80 - 120
9607361	EH2	Method Blank	Total Dissolved Solids	2019/09/28	<1.0		mg/L	
9607361	EH2	RPD	Total Dissolved Solids	2019/09/28	NC		%	20
9607473	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2019/09/28		109	%	80 - 120
9607473	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/09/28		106	%	80 - 120
9607473	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/09/28	<0.020		mg/L	
9607473	MO5	RPD	Nitrate plus Nitrite (N)	2019/09/28	3.0		%	25
9607474	MO5	Matrix Spike	Nitrite (N)	2019/09/28		97	%	80 - 120
9607474	MO5	Spiked Blank	Nitrite (N)	2019/09/28		100	%	80 - 120
9607474	MO5	Method Blank	Nitrite (N)	2019/09/28	<0.0050		mg/L	
9607474	MO5	RPD	Nitrite (N)	2019/09/28	NC		%	20
9607475	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2019/09/28		103	%	80 - 120
		[WO9156-02]						
9607475	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/09/28		107	%	80 - 120
9607475	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/09/28	<0.020		mg/L	
9607475	MO5	RPD [WO9156-02]	Nitrate plus Nitrite (N)	2019/09/28	NC		%	25
9607476	MO5	Matrix Spike	Nitrite (N)	2019/09/28		94	%	80 - 120
		[WO9156-02]						
9607476	MO5	Spiked Blank	Nitrite (N)	2019/09/28		101	%	80 - 120
9607476	MO5	Method Blank	Nitrite (N)	2019/09/28	<0.0050		mg/L	
9607476	MO5	RPD [WO9156-02]	Nitrite (N)	2019/09/28	NC		%	20
9607681	EH2	Matrix Spike	Total Suspended Solids	2019/09/29		97	%	80 - 120
		[WO9155-01]						
9607681	EH2	Spiked Blank	Total Suspended Solids	2019/09/29		92	%	80 - 120
9607681	EH2	Method Blank	Total Suspended Solids	2019/09/29	<1.0		mg/L	
9607681	EH2	RPD [WO9155-01]	Total Suspended Solids	2019/09/29	9.2		%	20
9608058	TMU	Matrix Spike	Strong Acid Dissoc. Cyanide (CN)	2019/10/01		NC	%	80 - 120
		[WO9162-06]						
9608058	TMU	Spiked Blank	Strong Acid Dissoc. Cyanide (CN)	2019/10/01		100	%	80 - 120
9608058	TMU	Method Blank	Strong Acid Dissoc. Cyanide (CN)	2019/10/01	<0.00050		mg/L	
9608058	TMU	RPD [WO9162-06]	Strong Acid Dissoc. Cyanide (CN)	2019/10/01	2.8		%	20
9608060	EH2	Matrix Spike	Total Suspended Solids	2019/09/30		91	%	80 - 120
9608060	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		96	%	80 - 120
9608060	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
9608060	EH2	RPD	Total Suspended Solids	2019/09/30	NC		%	20
9608061	TMU	Matrix Spike	Weak Acid Dissoc. Cyanide (CN)	2019/10/01		95	%	80 - 120
		[WO9162-06]						
9608061	TMU	Spiked Blank	Weak Acid Dissoc. Cyanide (CN)	2019/10/01		101	%	80 - 120
9608061	TMU	Method Blank	Weak Acid Dissoc. Cyanide (CN)	2019/10/01	<0.00050		mg/L	
9608061	TMU	RPD [WO9162-06]	Weak Acid Dissoc. Cyanide (CN)	2019/10/01	2.3		%	20
9608406	CJY	Matrix Spike	Total Mercury (Hg)	2019/09/30		38 (1)	%	80 - 120
9608406	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		99	%	80 - 120
9608406	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9608406	CJY	RPD	Total Mercury (Hg)	2019/09/30	NC		%	20
9608530	VCN	Matrix Spike	Dissolved Aluminum (Al)	2019/09/30		92	%	80 - 120
		[WO9155-10]						
			Dissolved Antimony (Sb)	2019/09/30		97	%	80 - 120
			Dissolved Arsenic (As)	2019/09/30		98	%	80 - 120
			Dissolved Barium (Ba)	2019/09/30		NC	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/30		91	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/30		97	%	80 - 120
			Dissolved Boron (B)	2019/09/30		86	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/30		98	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2019/09/30		98	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/30		98	%	80 - 120
			Dissolved Copper (Cu)	2019/09/30		94	%	80 - 120
			Dissolved Iron (Fe)	2019/09/30		97	%	80 - 120
			Dissolved Lead (Pb)	2019/09/30		102	%	80 - 120
			Dissolved Lithium (Li)	2019/09/30		85	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/30		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/30		104	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/30		96	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/30		98	%	80 - 120
			Dissolved Selenium (Se)	2019/09/30		102	%	80 - 120
			Dissolved Silicon (Si)	2019/09/30		89	%	80 - 120
			Dissolved Silver (Ag)	2019/09/30		97	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/30		NC	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/30		99	%	80 - 120
			Dissolved Tin (Sn)	2019/09/30		91	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/30		99	%	80 - 120
			Dissolved Uranium (U)	2019/09/30		104	%	80 - 120
			Dissolved Vanadium (V)	2019/09/30		101	%	80 - 120
			Dissolved Zinc (Zn)	2019/09/30		100	%	80 - 120
			Dissolved Zirconium (Zr)	2019/09/30		99	%	80 - 120
9608530	VCN	Spiked Blank	Dissolved Aluminum (Al)	2019/09/30		96	%	80 - 120
			Dissolved Antimony (Sb)	2019/09/30		100	%	80 - 120
			Dissolved Arsenic (As)	2019/09/30		100	%	80 - 120
			Dissolved Barium (Ba)	2019/09/30		100	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/30		95	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/30		103	%	80 - 120
			Dissolved Boron (B)	2019/09/30		91	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/30		102	%	80 - 120
			Dissolved Chromium (Cr)	2019/09/30		102	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/30		103	%	80 - 120
			Dissolved Copper (Cu)	2019/09/30		101	%	80 - 120
			Dissolved Iron (Fe)	2019/09/30		102	%	80 - 120
			Dissolved Lead (Pb)	2019/09/30		107	%	80 - 120
			Dissolved Lithium (Li)	2019/09/30		92	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/30		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/30		100	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/30		103	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/30		98	%	80 - 120
			Dissolved Selenium (Se)	2019/09/30		102	%	80 - 120
			Dissolved Silicon (Si)	2019/09/30		100	%	80 - 120
			Dissolved Silver (Ag)	2019/09/30		100	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/30		99	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/30		102	%	80 - 120
			Dissolved Tin (Sn)	2019/09/30		94	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/30		101	%	80 - 120
			Dissolved Uranium (U)	2019/09/30		106	%	80 - 120
			Dissolved Vanadium (V)	2019/09/30		102	%	80 - 120
			Dissolved Zinc (Zn)	2019/09/30		109	%	80 - 120
			Dissolved Zirconium (Zr)	2019/09/30		97	%	80 - 120
9608530	VCN	Method Blank	Dissolved Aluminum (Al)	2019/09/30	<0.50		ug/L	
			Dissolved Antimony (Sb)	2019/09/30	<0.020		ug/L	
			Dissolved Arsenic (As)	2019/09/30	<0.020		ug/L	
			Dissolved Barium (Ba)	2019/09/30	<0.020		ug/L	



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Beryllium (Be)	2019/09/30	<0.010		ug/L	
			Dissolved Bismuth (Bi)	2019/09/30	<0.0050		ug/L	
			Dissolved Boron (B)	2019/09/30	<10		ug/L	
			Dissolved Cadmium (Cd)	2019/09/30	<0.0050		ug/L	
			Dissolved Chromium (Cr)	2019/09/30	<0.10		ug/L	
			Dissolved Cobalt (Co)	2019/09/30	<0.0050		ug/L	
			Dissolved Copper (Cu)	2019/09/30	<0.050		ug/L	
			Dissolved Iron (Fe)	2019/09/30	<1.0		ug/L	
			Dissolved Lead (Pb)	2019/09/30	<0.0050		ug/L	
			Dissolved Lithium (Li)	2019/09/30	<0.50		ug/L	
			Dissolved Manganese (Mn)	2019/09/30	<0.050		ug/L	
			Dissolved Molybdenum (Mo)	2019/09/30	<0.050		ug/L	
			Dissolved Nickel (Ni)	2019/09/30	<0.020		ug/L	
			Dissolved Phosphorus (P)	2019/09/30	<2.0		ug/L	
			Dissolved Selenium (Se)	2019/09/30	<0.040		ug/L	
			Dissolved Silicon (Si)	2019/09/30	<50		ug/L	
			Dissolved Silver (Ag)	2019/09/30	<0.0050		ug/L	
			Dissolved Strontium (Sr)	2019/09/30	<0.050		ug/L	
			Dissolved Thallium (Tl)	2019/09/30	<0.0020		ug/L	
			Dissolved Tin (Sn)	2019/09/30	<0.20		ug/L	
			Dissolved Titanium (Ti)	2019/09/30	<0.50		ug/L	
			Dissolved Uranium (U)	2019/09/30	<0.0020		ug/L	
			Dissolved Vanadium (V)	2019/09/30	<0.20		ug/L	
			Dissolved Zinc (Zn)	2019/09/30	<0.10		ug/L	
			Dissolved Zirconium (Zr)	2019/09/30	<0.10		ug/L	
9608530	VCN	RPD [WO9155-10]	Dissolved Aluminum (Al)	2019/09/30	3.6		%	20
			Dissolved Antimony (Sb)	2019/09/30	0.80		%	20
			Dissolved Arsenic (As)	2019/09/30	1.4		%	20
			Dissolved Barium (Ba)	2019/09/30	0.86		%	20
			Dissolved Beryllium (Be)	2019/09/30	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/30	NC		%	20
			Dissolved Boron (B)	2019/09/30	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/30	3.4		%	20
			Dissolved Chromium (Cr)	2019/09/30	6.9		%	20
			Dissolved Cobalt (Co)	2019/09/30	1.2		%	20
			Dissolved Copper (Cu)	2019/09/30	1.7		%	20
			Dissolved Iron (Fe)	2019/09/30	0.71		%	20
			Dissolved Lead (Pb)	2019/09/30	1.1		%	20
			Dissolved Lithium (Li)	2019/09/30	0.18		%	20
			Dissolved Manganese (Mn)	2019/09/30	0.16		%	20
			Dissolved Molybdenum (Mo)	2019/09/30	0.37		%	20
			Dissolved Nickel (Ni)	2019/09/30	0.0056		%	20
			Dissolved Phosphorus (P)	2019/09/30	1.5		%	20
			Dissolved Selenium (Se)	2019/09/30	0.39		%	20
			Dissolved Silicon (Si)	2019/09/30	0.93		%	20
			Dissolved Silver (Ag)	2019/09/30	NC		%	20
			Dissolved Strontium (Sr)	2019/09/30	2.1		%	20
			Dissolved Thallium (Tl)	2019/09/30	2.9		%	20
			Dissolved Tin (Sn)	2019/09/30	NC		%	20
			Dissolved Titanium (Ti)	2019/09/30	NC		%	20
			Dissolved Uranium (U)	2019/09/30	0.88		%	20
			Dissolved Vanadium (V)	2019/09/30	1.7		%	20
			Dissolved Zinc (Zn)	2019/09/30	0.13		%	20
			Dissolved Zirconium (Zr)	2019/09/30	4.0		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9608530	VCN	RPD [WO9165-10]	Dissolved Aluminum (Al)	2019/09/30	NC		%	20
				Dissolved Antimony (Sb)	2019/09/30	NC		%	20
				Dissolved Arsenic (As)	2019/09/30	NC		%	20
				Dissolved Barium (Ba)	2019/09/30	NC		%	20
				Dissolved Beryllium (Be)	2019/09/30	NC		%	20
				Dissolved Bismuth (Bi)	2019/09/30	NC		%	20
				Dissolved Boron (B)	2019/09/30	NC		%	20
				Dissolved Cadmium (Cd)	2019/09/30	NC		%	20
				Dissolved Chromium (Cr)	2019/09/30	NC		%	20
				Dissolved Cobalt (Co)	2019/09/30	NC		%	20
				Dissolved Copper (Cu)	2019/09/30	NC		%	20
				Dissolved Iron (Fe)	2019/09/30	NC		%	20
				Dissolved Lead (Pb)	2019/09/30	NC		%	20
				Dissolved Lithium (Li)	2019/09/30	NC		%	20
				Dissolved Manganese (Mn)	2019/09/30	NC		%	20
				Dissolved Molybdenum (Mo)	2019/09/30	NC		%	20
				Dissolved Nickel (Ni)	2019/09/30	NC		%	20
				Dissolved Phosphorus (P)	2019/09/30	NC		%	20
				Dissolved Selenium (Se)	2019/09/30	NC		%	20
				Dissolved Silicon (Si)	2019/09/30	NC		%	20
				Dissolved Silver (Ag)	2019/09/30	NC		%	20
				Dissolved Strontium (Sr)	2019/09/30	NC		%	20
				Dissolved Thallium (Tl)	2019/09/30	NC		%	20
				Dissolved Tin (Sn)	2019/09/30	NC		%	20
				Dissolved Titanium (Ti)	2019/09/30	NC		%	20
				Dissolved Uranium (U)	2019/09/30	NC		%	20
				Dissolved Vanadium (V)	2019/09/30	NC		%	20
				Dissolved Zinc (Zn)	2019/09/30	NC		%	20
				Dissolved Zirconium (Zr)	2019/09/30	NC		%	20
	9608536	EH2	Matrix Spike	Total Suspended Solids	2019/09/30		92	%	80 - 120
	9608536	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		90	%	80 - 120
	9608536	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
	9608536	EH2	RPD	Total Suspended Solids	2019/09/30	NC		%	20
	9608614	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/09/30		103	%	80 - 120
	9608614	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/09/30		94	%	80 - 120
	9608614	CJY	Method Blank	Dissolved Mercury (Hg)	2019/09/30	<0.0020		ug/L	
	9608614	CJY	RPD	Dissolved Mercury (Hg)	2019/09/30	NC		%	20
	9608768	CJY	Matrix Spike [WO9158-07]	Total Mercury (Hg)	2019/09/30		108	%	80 - 120
	9608768	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		94	%	80 - 120
	9608768	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
	9608768	CJY	RPD [WO9158-07]	Total Mercury (Hg)	2019/09/30	9.3		%	20
	9608866	HE1	Matrix Spike [WO9166-03]	Total Dissolved Solids	2019/09/30		89	%	80 - 120
	9608866	HE1	Spiked Blank	Total Dissolved Solids	2019/09/30		108	%	80 - 120
	9608866	HE1	Method Blank	Total Dissolved Solids	2019/09/30	<1.0		mg/L	
	9608866	HE1	RPD [WO9168-03]	Total Dissolved Solids	2019/09/30	0.43		%	20
	9608924	AA1	Matrix Spike [WO9155-09]	Total Aluminum (Al)	2019/10/02		103	%	80 - 120
				Total Antimony (Sb)	2019/10/02		97	%	80 - 120
				Total Arsenic (As)	2019/10/02		104	%	80 - 120
				Total Barium (Ba)	2019/10/02		NC	%	80 - 120
				Total Beryllium (Be)	2019/10/02		99	%	80 - 120
				Total Bismuth (Bi)	2019/10/02		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Boron (B)	2019/10/02		98	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		101	%	80 - 120
			Total Chromium (Cr)	2019/10/02		99	%	80 - 120
			Total Cobalt (Co)	2019/10/02		101	%	80 - 120
			Total Copper (Cu)	2019/10/02		95	%	80 - 120
			Total Iron (Fe)	2019/10/02		104	%	80 - 120
			Total Lead (Pb)	2019/10/02		103	%	80 - 120
			Total Lithium (Li)	2019/10/02		102	%	80 - 120
			Total Manganese (Mn)	2019/10/02		NC	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		106	%	80 - 120
			Total Nickel (Ni)	2019/10/02		99	%	80 - 120
			Total Phosphorus (P)	2019/10/02		103	%	80 - 120
			Total Selenium (Se)	2019/10/02		106	%	80 - 120
			Total Silicon (Si)	2019/10/02		110	%	80 - 120
			Total Silver (Ag)	2019/10/02		101	%	80 - 120
			Total Strontium (Sr)	2019/10/02		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/02		102	%	80 - 120
			Total Tin (Sn)	2019/10/02		92	%	80 - 120
			Total Titanium (Ti)	2019/10/02		106	%	80 - 120
			Total Uranium (U)	2019/10/02		107	%	80 - 120
			Total Vanadium (V)	2019/10/02		101	%	80 - 120
			Total Zinc (Zn)	2019/10/02		98	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		104	%	80 - 120
			Total Sulphur (S)	2019/10/02		NC	%	80 - 120
9608924	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/02		100	%	80 - 120
			Total Antimony (Sb)	2019/10/02		101	%	80 - 120
			Total Arsenic (As)	2019/10/02		104	%	80 - 120
			Total Barium (Ba)	2019/10/02		102	%	80 - 120
			Total Beryllium (Be)	2019/10/02		102	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		101	%	80 - 120
			Total Boron (B)	2019/10/02		99	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		104	%	80 - 120
			Total Chromium (Cr)	2019/10/02		100	%	80 - 120
			Total Cobalt (Co)	2019/10/02		102	%	80 - 120
			Total Copper (Cu)	2019/10/02		99	%	80 - 120
			Total Iron (Fe)	2019/10/02		100	%	80 - 120
			Total Lead (Pb)	2019/10/02		102	%	80 - 120
			Total Lithium (Li)	2019/10/02		102	%	80 - 120
			Total Manganese (Mn)	2019/10/02		99	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		101	%	80 - 120
			Total Nickel (Ni)	2019/10/02		103	%	80 - 120
			Total Phosphorus (P)	2019/10/02		99	%	80 - 120
			Total Selenium (Se)	2019/10/02		108	%	80 - 120
			Total Silicon (Si)	2019/10/02		102	%	80 - 120
			Total Silver (Ag)	2019/10/02		103	%	80 - 120
			Total Strontium (Sr)	2019/10/02		99	%	80 - 120
			Total Thallium (Tl)	2019/10/02		100	%	80 - 120
			Total Tin (Sn)	2019/10/02		94	%	80 - 120
			Total Titanium (Ti)	2019/10/02		104	%	80 - 120
			Total Uranium (U)	2019/10/02		104	%	80 - 120
			Total Vanadium (V)	2019/10/02		99	%	80 - 120
			Total Zinc (Zn)	2019/10/02		104	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		101	%	80 - 120
			Total Sulphur (S)	2019/10/02		102	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9608924	AA1	Method Blank	Total Aluminum (Al)	2019/10/02	<3.0		ug/L	
			Total Antimony (Sb)	2019/10/02	<0.020		ug/L	
			Total Arsenic (As)	2019/10/02	<0.020		ug/L	
			Total Barium (Ba)	2019/10/02	<0.050		ug/L	
			Total Beryllium (Be)	2019/10/02	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/02	<0.010		ug/L	
			Total Boron (B)	2019/10/02	<10		ug/L	
			Total Cadmium (Cd)	2019/10/02	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/02	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/02	<0.010		ug/L	
			Total Copper (Cu)	2019/10/02	<0.10		ug/L	
			Total Iron (Fe)	2019/10/02	<5.0		ug/L	
			Total Lead (Pb)	2019/10/02	<0.020		ug/L	
			Total Lithium (Li)	2019/10/02	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/02	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/10/02	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/02	<0.10		ug/L	
			Total Phosphorus (P)	2019/10/02	<5.0		ug/L	
			Total Selenium (Se)	2019/10/02	<0.040		ug/L	
			Total Silicon (Si)	2019/10/02	<50		ug/L	
			Total Silver (Ag)	2019/10/02	<0.010		ug/L	
			Total Strontium (Sr)	2019/10/02	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/02	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/02	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/02	<2.0		ug/L	
			Total Uranium (U)	2019/10/02	<0.0050		ug/L	
			Total Vanadium (V)	2019/10/02	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/02	<1.0		ug/L	
			Total Zirconium (Zr)	2019/10/02	<0.10		ug/L	
			Total Sulphur (S)	2019/10/02	<600		ug/L	
			9608924	AA1	RPD [WO9155-09]	Total Aluminum (Al)	2019/10/02	6.4
Total Antimony (Sb)	2019/10/02	0.66					%	20
Total Arsenic (As)	2019/10/02	0.030					%	20
Total Barium (Ba)	2019/10/02	1.1					%	20
Total Beryllium (Be)	2019/10/02	1.8					%	20
Total Bismuth (Bi)	2019/10/02	NC					%	20
Total Boron (B)	2019/10/02	1.0					%	20
Total Cadmium (Cd)	2019/10/02	3.1					%	20
Total Chromium (Cr)	2019/10/02	4.9					%	20
Total Cobalt (Co)	2019/10/02	3.3					%	20
Total Copper (Cu)	2019/10/02	2.4					%	20
Total Iron (Fe)	2019/10/02	1.9					%	20
Total Lead (Pb)	2019/10/02	1.8					%	20
Total Lithium (Li)	2019/10/02	0.87					%	20
Total Manganese (Mn)	2019/10/02	1.1					%	20
Total Molybdenum (Mo)	2019/10/02	1.5					%	20
Total Nickel (Ni)	2019/10/02	0.30					%	20
Total Phosphorus (P)	2019/10/02	1.6					%	20
Total Selenium (Se)	2019/10/02	2.6					%	20
Total Silicon (Si)	2019/10/02	0.66					%	20
Total Silver (Ag)	2019/10/02	NC					%	20
Total Strontium (Sr)	2019/10/02	0.60					%	20
Total Thallium (Tl)	2019/10/02	4.5					%	20
Total Tin (Sn)	2019/10/02	NC					%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Titanium (Ti)	2019/10/02	1.8		%	20
			Total Uranium (U)	2019/10/02	1.7		%	20
			Total Vanadium (V)	2019/10/02	3.1		%	20
			Total Zinc (Zn)	2019/10/02	2.8		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Sulphur (S)	2019/10/02	1.8		%	20
9609053	CJY	Matrix Spike	Total Mercury (Hg)	2019/09/30		99	%	80 - 120
9609053	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		97	%	80 - 120
9609053	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9609053	CJY	RPD	Total Mercury (Hg)	2019/09/30	NC		%	20
9609259	EH2	Matrix Spike [WO9160-01]	Total Suspended Solids	2019/09/30		93	%	80 - 120
9609259	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		95	%	80 - 120
9609259	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
9609259	EH2	RPD [WO9160-01]	Total Suspended Solids	2019/09/30	NC		%	20
9609329	AA1	Matrix Spike [WO9169-09]	Total Aluminum (Al)	2019/10/01		89	%	80 - 120
			Total Antimony (Sb)	2019/10/01		101	%	80 - 120
			Total Arsenic (As)	2019/10/01		104	%	80 - 120
			Total Barium (Ba)	2019/10/01		NC	%	80 - 120
			Total Beryllium (Be)	2019/10/01		104	%	80 - 120
			Total Bismuth (Bi)	2019/10/01		96	%	80 - 120
			Total Boron (B)	2019/10/01		105	%	80 - 120
			Total Cadmium (Cd)	2019/10/01		104	%	80 - 120
			Total Chromium (Cr)	2019/10/01		99	%	80 - 120
			Total Cobalt (Co)	2019/10/01		100	%	80 - 120
			Total Copper (Cu)	2019/10/01		96	%	80 - 120
			Total Iron (Fe)	2019/10/01		NC	%	80 - 120
			Total Lead (Pb)	2019/10/01		101	%	80 - 120
			Total Lithium (Li)	2019/10/01		103	%	80 - 120
			Total Manganese (Mn)	2019/10/01		NC	%	80 - 120
			Total Molybdenum (Mo)	2019/10/01		102	%	80 - 120
			Total Nickel (Ni)	2019/10/01		97	%	80 - 120
			Total Phosphorus (P)	2019/10/01		105	%	80 - 120
			Total Selenium (Se)	2019/10/01		104	%	80 - 120
			Total Silicon (Si)	2019/10/01		NC	%	80 - 120
			Total Silver (Ag)	2019/10/01		104	%	80 - 120
			Total Strontium (Sr)	2019/10/01		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/01		101	%	80 - 120
			Total Tin (Sn)	2019/10/01		97	%	80 - 120
			Total Titanium (Ti)	2019/10/01		97	%	80 - 120
			Total Uranium (U)	2019/10/01		103	%	80 - 120
			Total Vanadium (V)	2019/10/01		98	%	80 - 120
			Total Zinc (Zn)	2019/10/01		98	%	80 - 120
			Total Zirconium (Zr)	2019/10/01		103	%	80 - 120
			Total Sulphur (S)	2019/10/01		NC	%	80 - 120
9609329	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/01		102	%	80 - 120
			Total Antimony (Sb)	2019/10/01		102	%	80 - 120
			Total Arsenic (As)	2019/10/01		102	%	80 - 120
			Total Barium (Ba)	2019/10/01		103	%	80 - 120
			Total Beryllium (Be)	2019/10/01		107	%	80 - 120
			Total Bismuth (Bi)	2019/10/01		97	%	80 - 120
			Total Boron (B)	2019/10/01		106	%	80 - 120
			Total Cadmium (Cd)	2019/10/01		104	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2019/10/01		100	%	80 - 120
			Total Cobalt (Co)	2019/10/01		103	%	80 - 120
			Total Copper (Cu)	2019/10/01		101	%	80 - 120
			Total Iron (Fe)	2019/10/01		102	%	80 - 120
			Total Lead (Pb)	2019/10/01		100	%	80 - 120
			Total Lithium (Li)	2019/10/01		104	%	80 - 120
			Total Manganese (Mn)	2019/10/01		98	%	80 - 120
			Total Molybdenum (Mo)	2019/10/01		100	%	80 - 120
			Total Nickel (Ni)	2019/10/01		102	%	80 - 120
			Total Phosphorus (P)	2019/10/01		102	%	80 - 120
			Total Selenium (Se)	2019/10/01		103	%	80 - 120
			Total Silicon (Si)	2019/10/01		103	%	80 - 120
			Total Silver (Ag)	2019/10/01		101	%	80 - 120
			Total Strontium (Sr)	2019/10/01		98	%	80 - 120
			Total Thallium (Tl)	2019/10/01		97	%	80 - 120
			Total Tin (Sn)	2019/10/01		97	%	80 - 120
			Total Titanium (Ti)	2019/10/01		104	%	80 - 120
			Total Uranium (U)	2019/10/01		99	%	80 - 120
			Total Vanadium (V)	2019/10/01		98	%	80 - 120
			Total Zinc (Zn)	2019/10/01		104	%	80 - 120
			Total Zirconium (Zr)	2019/10/01		100	%	80 - 120
			Total Sulphur (S)	2019/10/01		101	%	80 - 120
9609329	AA1	Method Blank	Total Aluminum (Al)	2019/10/01	<3.0		ug/L	
			Total Antimony (Sb)	2019/10/01	<0.020		ug/L	
			Total Arsenic (As)	2019/10/01	<0.020		ug/L	
			Total Barium (Ba)	2019/10/01	<0.050		ug/L	
			Total Beryllium (Be)	2019/10/01	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/01	<0.010		ug/L	
			Total Boron (B)	2019/10/01	<10		ug/L	
			Total Cadmium (Cd)	2019/10/01	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/01	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/01	<0.010		ug/L	
			Total Copper (Cu)	2019/10/01	<0.10		ug/L	
			Total Iron (Fe)	2019/10/01	<5.0		ug/L	
			Total Lead (Pb)	2019/10/01	<0.020		ug/L	
			Total Lithium (Li)	2019/10/01	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/01	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/10/01	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/01	<0.10		ug/L	
			Total Phosphorus (P)	2019/10/01	<5.0		ug/L	
			Total Selenium (Se)	2019/10/01	<0.040		ug/L	
			Total Silicon (Si)	2019/10/01	<50		ug/L	
			Total Silver (Ag)	2019/10/01	<0.010		ug/L	
			Total Strontium (Sr)	2019/10/01	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/01	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/01	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/01	<2.0		ug/L	
			Total Uranium (U)	2019/10/01	<0.0050		ug/L	
			Total Vanadium (V)	2019/10/01	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/01	<1.0		ug/L	
			Total Zirconium (Zr)	2019/10/01	<0.10		ug/L	
			Total Sulphur (S)	2019/10/01	<600		ug/L	
9609329	AA1	RPD [WO9168-09]	Total Aluminum (Al)	2019/10/01	11		%	20
			Total Antimony (Sb)	2019/10/01	3.1		%	20



QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Arsenic (As)	2019/10/01	0.59		%	20
			Total Barium (Ba)	2019/10/01	0.43		%	20
			Total Beryllium (Be)	2019/10/01	4.1		%	20
			Total Bismuth (Bi)	2019/10/01	NC		%	20
			Total Boron (B)	2019/10/01	NC		%	20
			Total Cadmium (Cd)	2019/10/01	13		%	20
			Total Chromium (Cr)	2019/10/01	4.8		%	20
			Total Cobalt (Co)	2019/10/01	2.5		%	20
			Total Copper (Cu)	2019/10/01	1.1		%	20
			Total Iron (Fe)	2019/10/01	7.4		%	20
			Total Lead (Pb)	2019/10/01	7.8		%	20
			Total Lithium (Li)	2019/10/01	0.29		%	20
			Total Manganese (Mn)	2019/10/01	2.9		%	20
			Total Molybdenum (Mo)	2019/10/01	1.9		%	20
			Total Nickel (Ni)	2019/10/01	0.93		%	20
			Total Phosphorus (P)	2019/10/01	2.0		%	20
			Total Selenium (Se)	2019/10/01	1.2		%	20
			Total Silicon (Si)	2019/10/01	3.3		%	20
			Total Silver (Ag)	2019/10/01	NC		%	20
			Total Strontium (Sr)	2019/10/01	0.39		%	20
			Total Thallium (Tl)	2019/10/01	3.4		%	20
			Total Tin (Sn)	2019/10/01	NC		%	20
			Total Titanium (Ti)	2019/10/01	4.0		%	20
			Total Uranium (U)	2019/10/01	0.86		%	20
			Total Vanadium (V)	2019/10/01	3.8		%	20
			Total Zinc (Zn)	2019/10/01	2.1		%	20
			Total Zirconium (Zr)	2019/10/01	15		%	20
			Total Sulphur (S)	2019/10/01	0.96		%	20
9609472	CGP	Matrix Spike [WO9164-02]	Alkalinity (Total as CaCO3)	2019/10/01		103	%	80 - 120
9609472	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2019/10/01		95	%	80 - 120
9609472	CGP	Method Blank	Alkalinity (Total as CaCO3)	2019/10/01	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/10/01	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/10/01	<0.50		mg/L	
			Carbonate (CO3)	2019/10/01	<0.50		mg/L	
			Hydroxide (OH)	2019/10/01	<0.50		mg/L	
9609472	CGP	RPD [WO9164-02]	Alkalinity (Total as CaCO3)	2019/10/01	1.5		%	20
			Alkalinity (PP as CaCO3)	2019/10/01	NC		%	20
			Bicarbonate (HCO3)	2019/10/01	1.5		%	20
			Carbonate (CO3)	2019/10/01	NC		%	20
			Hydroxide (OH)	2019/10/01	NC		%	20
9609474	CGP	Spiked Blank	Conductivity	2019/10/01		98	%	80 - 120
9609474	CGP	Method Blank	Conductivity	2019/10/01	<1.0		uS/cm	
9609474	CGP	RPD [WO9164-02]	Conductivity	2019/10/01	0.33		%	20
9609476	CGP	Spiked Blank	pH	2019/10/01		101	%	97 - 103
9609476	CGP	RPD [WO9164-02]	pH	2019/10/01	0		%	N/A
9609569	BB3	Matrix Spike	Dissolved Chloride (Cl)	2019/09/30		NC	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		92	%	80 - 120
9609569	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/09/30		97	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		93	%	80 - 120
9609569	BB3	Method Blank	Dissolved Chloride (Cl)	2019/09/30	<1.0		mg/L	
			Dissolved Sulphate (SO4)	2019/09/30	<1.0		mg/L	
9609569	BB3	RPD	Dissolved Sulphate (SO4)	2019/09/30	8.3		%	20



QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9610275	BB3	Matrix Spike [WO9155-02]	Dissolved Chloride (Cl)	2019/09/30		95	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		NC	%	80 - 120
9610275	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/09/30		98	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		94	%	80 - 120
9610275	BB3	Method Blank	Dissolved Chloride (Cl)	2019/09/30	<1.0		mg/L	
			Dissolved Sulphate (SO4)	2019/09/30	<1.0		mg/L	
9610275	BB3	RPD [WO9155-02]	Dissolved Chloride (Cl)	2019/09/30	NC		%	20
			Dissolved Sulphate (SO4)	2019/09/30	0.48		%	20
9610472	AA1	Matrix Spike	Total Aluminum (Al)	2019/10/02		103	%	80 - 120
			Total Antimony (Sb)	2019/10/02		102	%	80 - 120
			Total Arsenic (As)	2019/10/02		108	%	80 - 120
			Total Barium (Ba)	2019/10/02		NC	%	80 - 120
			Total Beryllium (Be)	2019/10/02		103	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		100	%	80 - 120
			Total Boron (B)	2019/10/02		103	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		103	%	80 - 120
			Total Chromium (Cr)	2019/10/02		99	%	80 - 120
			Total Cobalt (Co)	2019/10/02		98	%	80 - 120
			Total Copper (Cu)	2019/10/02		92	%	80 - 120
			Total Iron (Fe)	2019/10/02		104	%	80 - 120
			Total Lead (Pb)	2019/10/02		105	%	80 - 120
			Total Lithium (Li)	2019/10/02		107	%	80 - 120
			Total Manganese (Mn)	2019/10/02		98	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		NC	%	80 - 120
			Total Nickel (Ni)	2019/10/02		97	%	80 - 120
			Total Phosphorus (P)	2019/10/02		107	%	80 - 120
			Total Selenium (Se)	2019/10/02		NC	%	80 - 120
			Total Silicon (Si)	2019/10/02		114	%	80 - 120
			Total Silver (Ag)	2019/10/02		103	%	80 - 120
			Total Strontium (Sr)	2019/10/02		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/02		103	%	80 - 120
			Total Tin (Sn)	2019/10/02		96	%	80 - 120
			Total Titanium (Ti)	2019/10/02		107	%	80 - 120
			Total Uranium (U)	2019/10/02		110	%	80 - 120
			Total Vanadium (V)	2019/10/02		101	%	80 - 120
			Total Zinc (Zn)	2019/10/02		99	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		113	%	80 - 120
9610472	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/02		102	%	80 - 120
			Total Antimony (Sb)	2019/10/02		99	%	80 - 120
			Total Arsenic (As)	2019/10/02		102	%	80 - 120
			Total Barium (Ba)	2019/10/02		99	%	80 - 120
			Total Beryllium (Be)	2019/10/02		104	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		99	%	80 - 120
			Total Boron (B)	2019/10/02		99	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		104	%	80 - 120
			Total Chromium (Cr)	2019/10/02		100	%	80 - 120
			Total Cobalt (Co)	2019/10/02		102	%	80 - 120
			Total Copper (Cu)	2019/10/02		100	%	80 - 120
			Total Iron (Fe)	2019/10/02		101	%	80 - 120
			Total Lead (Pb)	2019/10/02		101	%	80 - 120
			Total Lithium (Li)	2019/10/02		103	%	80 - 120
			Total Manganese (Mn)	2019/10/02		100	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Nickel (Ni)	2019/10/02		104	%	80 - 120
			Total Phosphorus (P)	2019/10/02		103	%	80 - 120
			Total Selenium (Se)	2019/10/02		101	%	80 - 120
			Total Silicon (Si)	2019/10/02		102	%	80 - 120
			Total Silver (Ag)	2019/10/02		100	%	80 - 120
			Total Strontium (Sr)	2019/10/02		98	%	80 - 120
			Total Thallium (Tl)	2019/10/02		98	%	80 - 120
			Total Tin (Sn)	2019/10/02		93	%	80 - 120
			Total Titanium (Ti)	2019/10/02		104	%	80 - 120
			Total Uranium (U)	2019/10/02		102	%	80 - 120
			Total Vanadium (V)	2019/10/02		100	%	80 - 120
			Total Zinc (Zn)	2019/10/02		112	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		100	%	80 - 120
9610472	AA1	Method Blank	Total Aluminum (Al)	2019/10/02	<0.50		ug/L	
			Total Antimony (Sb)	2019/10/02	<0.020		ug/L	
			Total Arsenic (As)	2019/10/02	<0.020		ug/L	
			Total Barium (Ba)	2019/10/02	<0.020		ug/L	
			Total Beryllium (Be)	2019/10/02	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/02	<0.0050		ug/L	
			Total Boron (B)	2019/10/02	<10		ug/L	
			Total Cadmium (Cd)	2019/10/02	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/02	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/02	<0.0050		ug/L	
			Total Copper (Cu)	2019/10/02	<0.050		ug/L	
			Total Iron (Fe)	2019/10/02	<1.0		ug/L	
			Total Lead (Pb)	2019/10/02	<0.0050		ug/L	
			Total Lithium (Li)	2019/10/02	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/02	<0.050		ug/L	
			Total Molybdenum (Mo)	2019/10/02	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/02	<0.020		ug/L	
			Total Phosphorus (P)	2019/10/02	<2.0		ug/L	
			Total Selenium (Se)	2019/10/02	<0.040		ug/L	
			Total Silicon (Si)	2019/10/02	<50		ug/L	
			Total Silver (Ag)	2019/10/02	<0.0050		ug/L	
			Total Strontium (Sr)	2019/10/02	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/02	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/02	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/02	<0.50		ug/L	
			Total Uranium (U)	2019/10/02	<0.0020		ug/L	
			Total Vanadium (V)	2019/10/02	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/02	<0.10		ug/L	
			Total Zirconium (Zr)	2019/10/02	<0.10		ug/L	
9610472	AA1	RPD [WO9165-09]	Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
9610472	AA1	RPD	Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	11		%	20
			Total Antimony (Sb)	2019/10/02	2.4		%	20
			Total Arsenic (As)	2019/10/02	0.58		%	20
			Total Barium (Ba)	2019/10/02	2.4		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	1.9		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2019/10/02	2.0		%	20
			Total Cobalt (Co)	2019/10/02	1.4		%	20
			Total Copper (Cu)	2019/10/02	2.0		%	20
			Total Iron (Fe)	2019/10/02	2.7		%	20
			Total Lead (Pb)	2019/10/02	6.1		%	20
			Total Lithium (Li)	2019/10/02	1.3		%	20
			Total Manganese (Mn)	2019/10/02	2.4		%	20
			Total Molybdenum (Mo)	2019/10/02	0.36		%	20
			Total Nickel (Ni)	2019/10/02	2.8		%	20
			Total Phosphorus (P)	2019/10/02	4.7		%	20
			Total Selenium (Se)	2019/10/02	0.42		%	20
			Total Silicon (Si)	2019/10/02	1.4		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	0.027		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	1.6		%	20
			Total Vanadium (V)	2019/10/02	2.8		%	20
			Total Zinc (Zn)	2019/10/02	2.0		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20



QUALITY ASSURANCE REPORT(CONT'D)

BV Labs - Partial/Rush Results

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
9612234	KGH	Matrix Spike	Dissolved Organic Carbon (C)	2019/10/03		107	%	80 - 120
9612234	KGH	Spiked Blank	Dissolved Organic Carbon (C)	2019/10/03		106	%	80 - 120
9612234	KGH	Method Blank	Dissolved Organic Carbon (C)	2019/10/03	<0.50		mg/L	
9612234	KGH	RPD	Dissolved Organic Carbon (C)	2019/10/03	2.8		%	20
9612868	JLD	Matrix Spike [WO9169-04]	Total Total Kjeldahl Nitrogen	2019/10/03		93	%	80 - 120
9612868	JLD	QC Standard	Total Total Kjeldahl Nitrogen	2019/10/03		97	%	80 - 120
9612868	JLD	Spiked Blank	Total Total Kjeldahl Nitrogen	2019/10/03		94	%	80 - 120
9612868	JLD	Method Blank	Total Total Kjeldahl Nitrogen	2019/10/03	<0.050		mg/L	
9612872	JLD	Matrix Spike [WO9164-04]	Total Total Kjeldahl Nitrogen	2019/10/04		44 (1)	%	80 - 120
9612872	JLD	QC Standard	Total Total Kjeldahl Nitrogen	2019/10/03		92	%	80 - 120
9612872	JLD	Spiked Blank	Total Total Kjeldahl Nitrogen	2019/10/03		93	%	80 - 120
9612872	JLD	Method Blank	Total Total Kjeldahl Nitrogen	2019/10/03	<0.050		mg/L	
9612872	JLD	RPD [WO9166-04]	Total Total Kjeldahl Nitrogen	2019/10/04	7.5		%	20
9613066	KGH	Matrix Spike [WO9159-05]	Dissolved Organic Carbon (C)	2019/10/03		98	%	80 - 120
9613066	KGH	Spiked Blank	Dissolved Organic Carbon (C)	2019/10/03		103	%	80 - 120
9613066	KGH	Method Blank	Dissolved Organic Carbon (C)	2019/10/03	<0.50		mg/L	
9613066	KGH	RPD [WO9159-05]	Dissolved Organic Carbon (C)	2019/10/03	12		%	20
9613067	FM0	Matrix Spike [WO9167-04]	Total Ammonia (N)	2019/10/03		100	%	80 - 120
9613067	FM0	Spiked Blank	Total Ammonia (N)	2019/10/03		110	%	80 - 120
9613067	FM0	Method Blank	Total Ammonia (N)	2019/10/03	<0.0050		mg/L	
9613067	FM0	RPD [WO9167-04]	Total Ammonia (N)	2019/10/03	4.6		%	20
9613104	MB5	Matrix Spike	Total Phosphorus (P)	2019/10/04		98	%	80 - 120
9613104	MB5	QC Standard	Total Phosphorus (P)	2019/10/04		84	%	80 - 120
9613104	MB5	Spiked Blank	Total Phosphorus (P)	2019/10/04		86	%	80 - 120
9613104	MB5	Method Blank	Total Phosphorus (P)	2019/10/04	<0.0030		mg/L	



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9613104	MB5	RPD	Total Phosphorus (P)	2019/10/04	7.4		%	20
9615091	FM0	Matrix Spike	Total Ammonia (N)	2019/10/05		92	%	80 - 120
9615091	FM0	Spiked Blank	Total Ammonia (N)	2019/10/05		99	%	80 - 120
9615091	FM0	Method Blank	Total Ammonia (N)	2019/10/05	<0.0050		mg/L	
9615091	FM0	RPD	Total Ammonia (N)	2019/10/05	5.7		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

BV Labs - Partial/Rush Results



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/10

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



Your Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Your C.O.C. #: 594657-02-01, 594657-01-01

Attention: Jillian Chown

Golden Predator Exploration
 Suite 250-200 Burrard St
 Vancouver, BC
 CANADA V6C 3L6

Report Date: 2019/10/11
 Report #: R2795515
 Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B982249

Received: 2019/09/26, 10:40

Sample Matrix: Water
 # Samples Received: 16

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 2320 B m
Chloride/Sulphate by Auto Colourimetry	13	N/A	2019/09/30	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry	3	N/A	2019/10/01	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Cyanide SAD (strong acid dissociable) (1)	16	N/A	2019/10/01	CAL SOP-00270	SM 23 4500-CN m
Cyanide WAD (weak acid dissociable) (1)	16	N/A	2019/10/01	CAL SOP-00270	SM 23 4500-CN m
Carbon (DOC) -Lab Filtered (1, 2)	3	N/A	2019/10/03	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) (1, 2)	13	N/A	2019/10/03	AB SOP-00087	MMCW 119 1996 m
Conductance - Low Level	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 2510 B m
Hardness Total (calculated as CaCO3) (3)	9	N/A	2019/10/02	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	7	N/A	2019/10/03	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	16	N/A	2019/10/01	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	16	2019/09/30	2019/09/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	16	2019/09/30	2019/09/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	16	N/A	2019/10/01	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	16	N/A	2019/09/30	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	12	2019/09/30	2019/10/01	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2019/09/30	2019/10/02	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	9	N/A	2019/10/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	7	N/A	2019/10/03	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	3	N/A	2019/10/02	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (total), Calc. TKN, NO3, NO2 (1)	14	N/A	2019/10/03		Auto Calc
Nitrogen (total), Calc. TKN, NO3, NO2 (1)	2	N/A	2019/10/05		Auto Calc
Ammonia-N Low Level (Preserved) (1)	15	N/A	2019/10/03	AB SOP-00007	SM 23 4500 NH3 A G m
Ammonia-N Low Level (Preserved) (1)	1	N/A	2019/10/05	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	16	N/A	2019/09/28	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	16	N/A	2019/09/28	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	12	N/A	2019/09/28	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	4	N/A	2019/09/29	BBY WI-00033	Auto Calc



Your Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Your C.O.C. #: 594657-02-01, 594657-01-01

Attention: Jillian Chown

Golden Predator Exploration
 Suite 250-200 Burrard St
 Vancouver, BC
 CANADA V6C 3L6

Report Date: 2019/10/11
 Report #: R2795515
 Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B982249

Received: 2019/09/26, 10:40

Sample Matrix: Water
 # Samples Received: 16

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Filter and HNO3 Preserve for Metals	15	N/A	2019/09/27	BBY7 WI-00004	SM 23 3030B m
pH @25°C (4)	16	N/A	2019/10/01	BBY6SOP-00026	SM 22 4500-H+ B m
Total Dissolved Solids - Low Level (1)	10	2019/09/28	2019/09/28	AB SOP-00065	SM 23 2540 C m
Total Dissolved Solids - Low Level (1)	6	2019/09/30	2019/09/30	AB SOP-00065	SM 23 2540 C m
Total Kjeldahl Nitrogen (1)	13	2019/10/03	2019/10/03	AB SOP-00008	EPA 351.1 R1978 m
Total Kjeldahl Nitrogen (1)	2	2019/10/03	2019/10/04	AB SOP-00008	EPA 351.1 R1978 m
Total Kjeldahl Nitrogen (1)	1	2019/10/10	2019/10/11	AB SOP-00008	EPA 351.1 R1978 m
Total Phosphorus (1)	16	2019/10/03	2019/10/04	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR) (1)	1	2019/09/29	2019/09/29	AB SOP-00061	SM 23 2540 D m
Total Suspended Solids (NFR) (1)	15	2019/09/30	2019/09/30	AB SOP-00061	SM 23 2540 D m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

- (1) This test was performed by BV Labs Calgary Environmental
- (2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

Encryption Key

Nahed Amer
 Project Manager
 11 Oct 2019 17:22:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
 Customer Solutions, Western Canada Customer Experience Team
 Email: customersolutionswest@bvlabs.com
 Phone# (604) 734 7276

=====
 BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	258	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	267	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.171	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	117	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	143	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	5.3	0.50	mg/L	+/- 0.65	2019/10/03	2019/10/03	KGH	9613066
pH	8.02	N/A	pH	+/- 0.116	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	6.8	1.0	mg/L	+/- 1.3	2019/09/29	2019/09/29	EH2	9607681
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.038	0.0050	mg/L	+/- 0.0051	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.171	0.020	mg/L	+/- 0.026	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.43	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0040	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.26	0.050	mg/L	+/- 0.080	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	536	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	346(1)	1.2	mg/L	+/- 12.0	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	27.8	0.50	ug/L	+/- 55.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	2.74	0.020	ug/L	+/- 0.257	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.37	0.020	ug/L	+/- 0.357	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	61.6	0.020	ug/L	+/- 5.38	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0923	0.0050	ug/L	+/- 0.0140	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.18	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.479	0.0050	ug/L	+/- 0.0541	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.799	0.050	ug/L	+/- 0.139	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	246	1.0	ug/L	+/- 24.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0088	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	8.50	0.50	ug/L	+/- 0.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	95.8	0.050	ug/L	+/- 9.35	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.41	0.050	ug/L	+/- 0.308	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	3.55	0.020	ug/L	+/- 0.888	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	8.8	2.0	ug/L	+/- 5.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.07	0.040	ug/L	+/- 0.332	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3470	50	ug/L	+/- 514	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	409	0.050	ug/L	+/- 30.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0067	0.0020	ug/L	+/- 0.0032	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.22	0.0020	ug/L	+/- 0.284	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.56	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	6.21	0.10	ug/L	+/- 2.18	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.21	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	60.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	25.9	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.12	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	2.37	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	51.5	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	102	3.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Antimony (Sb)	2.72	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Arsenic (As)	4.06	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Barium (Ba)	66.3	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Beryllium (Be)	0.011	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Boron (B)	10	10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Cadmium (Cd)	0.123	0.0050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9155 BC-04								
Sampling Date	2019/09/23 09:42							
Matrix	WATER							
Sample #	BC-04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Chromium (Cr)	0.28	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Cobalt (Co)	0.549	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Copper (Cu)	1.04	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Iron (Fe)	488	5.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Lead (Pb)	0.103	0.020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Lithium (Li)	9.05	0.50	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Manganese (Mn)	102	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Molybdenum (Mo)	2.41	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Nickel (Ni)	3.83	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Phosphorus (P)	14.4	5.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Selenium (Se)	2.13	0.040	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Silicon (Si)	3370	50	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Strontium (Sr)	403	0.050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Thallium (Tl)	0.0086	0.0020	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Titanium (Ti)	2.4	2.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Uranium (U)	2.08	0.0050	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Vanadium (V)	0.86	0.20	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Zinc (Zn)	7.9	1.0	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Zirconium (Zr)	0.21	0.10	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
Total Calcium (Ca)	62.6	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.11	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	2.45	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	52.4	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	52400	600	ug/L	N/A	2019/09/30	2019/10/02	AA1	9608924
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	347	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	375	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	188	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	229	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	8.23	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	11	1.0	mg/L	+/- 1.8	2019/09/30	2019/09/30	EH2	9608060
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	0.66	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Dissolved Sulphate (SO4)	180	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Nutrients								
Total Ammonia (N)	0.032	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.066	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.066	0.050	mg/L	+/- 0.057	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	681	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	468(1)	1.1	mg/L	+/- 16.2	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.62	0.50	ug/L	+/- 4.69	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	30.7	0.020	ug/L	+/- 2.84	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	27.5	0.020	ug/L	+/- 2.83	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	37.4	0.020	ug/L	+/- 3.27	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cadmium (Cd)	0.0104	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0358	0.0050	ug/L	+/- 0.0088	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.137	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1.7	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0080	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	8.55	0.50	ug/L	+/- 0.73	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	6.84	0.050	ug/L	+/- 0.691	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	4.81	0.050	ug/L	+/- 0.604	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.320	0.020	ug/L	+/- 0.122	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.2	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.70	0.040	ug/L	+/- 0.273	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2960	50	ug/L	+/- 439	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	644	0.050	ug/L	+/- 47.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0778	0.0020	ug/L	+/- 0.0093	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	9.54	0.0020	ug/L	+/- 1.21	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.69	0.10	ug/L	+/- 1.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	81.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	34.8	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.48	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.32	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	56.8	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	113	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	33.0	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	36.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	44.7	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.015	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	0.015	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0259	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.17	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9156 BC-17								
Sampling Date	2019/09/23 12:00							
Matrix	WATER							
Sample #	BC-17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Cobalt (Co)	0.229	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.41	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	241	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	1.12	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	9.31	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	32.2	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	4.87	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.63	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	7.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.79	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	3230	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	675	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0938	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.22	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	2.2	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	9.49	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.57	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	2.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.15	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	88.8	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	37.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	1.54	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	1.39	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	61.1	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	61100	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0024	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0091	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	213	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	226	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	147	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	179	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	8.23	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	3.1	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	0.81	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	87	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.050	0.0050	mg/L	+/- 0.0067	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.12	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0034	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.12	0.050	mg/L	+/- 0.061	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	442	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	276(1)	1.2	mg/L	+/- 9.6	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.39	0.50	ug/L	+/- 4.26	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	95.5	0.020	ug/L	+/- 8.82	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	17.5	0.020	ug/L	+/- 1.81	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	109	0.020	ug/L	+/- 9.52	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cadmium (Cd)	0.0207	0.0050	ug/L	+/- 0.0077	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0610	0.0050	ug/L	+/- 0.0105	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.445	0.050	ug/L	+/- 0.125	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1.6	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0107	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	2.98	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	58.4	0.050	ug/L	+/- 5.71	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	4.01	0.050	ug/L	+/- 0.506	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.532	0.020	ug/L	+/- 0.165	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	5.3	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	3.97	0.040	ug/L	+/- 0.630	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2690	50	ug/L	+/- 400	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	447	0.050	ug/L	+/- 33.3	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0682	0.0020	ug/L	+/- 0.0083	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	7.88	0.0020	ug/L	+/- 1.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.23	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	2.34	0.10	ug/L	+/- 1.75	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	51.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	20.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.76	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.691	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	27.5	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	87.9	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	102	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	19.4	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	121	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0292	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.19	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9157 BC-10								
Sampling Date	2019/09/23 12:30							
Matrix	WATER							
Sample #	BC-10							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Cobalt (Co)	0.088	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.64	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	91.9	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.162	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	3.17	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	63.6	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	4.13	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.66	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	10.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	3.99	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2810	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	429	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0716	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.24	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	7.58	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.63	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	2.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	55.5	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	21.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	1.73	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.73	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	28.9	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	28900	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0031	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608406
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	208	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	220	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/29	2019/09/29		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.87	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	4.09	N/A	pH	+/- 0.0593	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.0	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	3.9	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	220(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	<0.0050	0.0050	mg/L	N/A	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.20	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0073	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.20	0.050	mg/L	+/- 0.071	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	528	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	372(1)	1.2	mg/L	+/- 12.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1850	0.50	ug/L	+/- 3600	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	1.69	0.020	ug/L	+/- 0.161	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	16.2	0.020	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	29.7	0.020	ug/L	+/- 2.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	4.85	0.010	ug/L	+/- 0.699	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	1.69	0.0050	ug/L	+/- 0.218	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W								
Sampling Date	2019/09/23 01:15							
Matrix	WATER							
Sample #	BC 51W							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Chromium (Cr)	0.21	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	24.0	0.0050	ug/L	+/- 2.64	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	76.5	0.050	ug/L	+/- 6.32	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	1510	1.0	ug/L	+/- 146	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.126	0.0050	ug/L	+/- 0.0171	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	7.16	0.50	ug/L	+/- 0.62	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1410	0.050	ug/L	+/- 137	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	78.6	0.020	ug/L	+/- 19.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	6.9	2.0	ug/L	+/- 5.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.42	0.040	ug/L	+/- 0.386	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	7800	50	ug/L	+/- 1150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	0.0108	0.0050	ug/L	+/- 0.0119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	334	0.050	ug/L	+/- 24.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.113	0.0020	ug/L	+/- 0.0129	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	1.11	0.0020	ug/L	+/- 0.142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	188	0.10	ug/L	+/- 37.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	45.3	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	23.0	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	2.44	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.700	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	74.8	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	2010	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	1.82	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	17.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	30.5	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	5.20	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	12	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	1.77	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.21	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	23.5	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9158 BC 51W Sampling Date 2019/09/23 01:15 Matrix WATER Sample # BC 51W								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Copper (Cu)	80.4	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	1610	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.132	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	7.54	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	1420	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	79.8	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	17.9	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	2.51	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	8540	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	0.016	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	336	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.108	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	1.11	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	190	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	48.3	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	24.1	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	2.37	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.72	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	80.2	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	80200	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0059	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0075	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9159 BC 12 Sampling Date 2019/09/23 01:45 Matrix WATER Sample # BC 12								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Dissolved Hardness (CaCO3)	617	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	650	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	57.5	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	70.1	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.61	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	7.40	N/A	pH	+/- 0.107	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	5.5	1.0	mg/L	+/- 1.1	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	550(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.025	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.062	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0062	0.0030	mg/L	+/- 0.0037	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.062	0.050	mg/L	+/- 0.057	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	1170	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	951(1)	1.1	mg/L	+/- 32.8	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.54	0.50	ug/L	+/- 4.53	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	15.2	0.020	ug/L	+/- 1.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	1.82	0.020	ug/L	+/- 0.200	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	20.3	0.020	ug/L	+/- 1.78	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.038	0.010	ug/L	+/- 0.010	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	16	10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.459	0.0050	ug/L	+/- 0.0598	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Cobalt (Co)	11.4	0.0050	ug/L	+/- 1.25	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.321	0.050	ug/L	+/- 0.121	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	108	1.0	ug/L	+/- 10.9	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	7.47	0.50	ug/L	+/- 0.64	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	635	0.050	ug/L	+/- 61.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	0.496	0.050	ug/L	+/- 0.080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	52.2	0.020	ug/L	+/- 12.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	2.4	2.0	ug/L	+/- 5.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	0.215	0.040	ug/L	+/- 0.048	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3340	50	ug/L	+/- 495	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1040	0.050	ug/L	+/- 77.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.126	0.0020	ug/L	+/- 0.0142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	0.925	0.0020	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	59.8	0.10	ug/L	+/- 12.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	159	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	53.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	3.92	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.15	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	186	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	40.6	0.50	ug/L	+/- 4.00	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	17.0	0.020	ug/L	+/- 1.58	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	61.0	0.020	ug/L	+/- 6.27	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	21.8	0.020	ug/L	+/- 1.91	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	0.129	0.010	ug/L	+/- 0.020	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	18	10	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	0.562	0.0050	ug/L	+/- 0.0757	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	11.6	0.0050	ug/L	+/- 1.27	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	1.03	0.050	ug/L	+/- 0.118	2019/10/02	2019/10/02	AA1	9610472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9159 BC 12								
Sampling Date	2019/09/23 01:45							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Iron (Fe)	1880	1.0	ug/L	+/- 201	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	0.0384	0.0050	ug/L	+/- 0.0074	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	8.42	0.50	ug/L	+/- 1.02	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	659	0.050	ug/L	+/- 64.2	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	0.549	0.050	ug/L	+/- 0.067	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	56.3	0.020	ug/L	+/- 5.00	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	6.7	2.0	ug/L	+/- 5.7	2019/10/02	2019/10/02	AA1	9610472
Total Selenium (Se)	0.236	0.040	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	3500	50	ug/L	+/- 518	2019/10/02	2019/10/02	AA1	9610472
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	1060	0.050	ug/L	+/- 79.2	2019/10/02	2019/10/02	AA1	9610472
Total Thallium (Tl)	0.122	0.0020	ug/L	+/- 0.0139	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	0.63	0.50	ug/L	+/- 0.87	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	0.953	0.0020	ug/L	+/- 0.122	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	71.0	0.10	ug/L	+/- 15.0	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	167	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	56.6	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	3.90	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	1.22	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	196	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0021	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0030	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	522	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	542	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Nitrate (N)	0.036	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	134	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	163	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.76	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	8.15	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.4	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	360(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.029	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.036	0.020	mg/L	+/- <RDL	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.14	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0043	0.0030	mg/L	+/- 0.0036	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.10	0.050	mg/L	+/- 0.060	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	986	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	750(1)	1.1	mg/L	+/- 25.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.64	0.50	ug/L	+/- 4.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.57	0.020	ug/L	+/- 0.334	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	33.1	0.020	ug/L	+/- 3.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	26.4	0.020	ug/L	+/- 2.31	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0161	0.0050	ug/L	+/- 0.0075	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0159	0.0050	ug/L	+/- 0.0080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.185	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Iron (Fe)	2.4	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	1.23	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1.71	0.050	ug/L	+/- 0.201	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.12	0.050	ug/L	+/- 0.151	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.373	0.020	ug/L	+/- 0.132	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.3	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	28.8	0.040	ug/L	+/- 4.54	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2070	50	ug/L	+/- 308	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1060	0.050	ug/L	+/- 79.1	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0433	0.0020	ug/L	+/- 0.0059	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	3.88	0.0020	ug/L	+/- 0.495	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.21	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.46	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	117	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	55.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.926	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.426	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	130	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	80.4	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.67	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	37.9	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	33.3	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0234	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.16	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.046	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.44	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	109	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.211	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9160 BC 15								
Sampling Date	2019/09/24 09:00							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Lithium (Li)	1.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	5.30	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	1.08	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.54	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	12.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	29.4	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2230	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1110	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0511	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	4.8	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	3.78	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.36	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	123	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	57.2	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	0.96	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.49	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	136	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	136000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0050	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9161 DUPLICATE (DUP)								
Sampling Date	2019/09/24 09:15							
Matrix	WATER							
Sample #	DUPLICATE (DUP)							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD							
Dissolved Hardness (CaCO3)	518	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	554	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date	2019/09/24 09:15							
Matrix	WATER							
Sample #	DUPLICATE (DUP)							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (Total as CaCO3)	135	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	165	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	0.99	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	8.16	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	390(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.016	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	<0.055	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	<0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	982	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	752(1)	1.0	mg/L	+/- 26.0	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.65	0.50	ug/L	+/- 4.74	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.50	0.020	ug/L	+/- 0.328	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	33.2	0.020	ug/L	+/- 3.41	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	26.5	0.020	ug/L	+/- 2.32	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0127	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0168	0.0050	ug/L	+/- 0.0080	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.194	0.050	ug/L	+/- 0.119	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	2.8	1.0	ug/L	+/- 1.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date	2019/09/24 09:15							
Matrix	WATER							
Sample #	DUPLICATE (DUP)							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Lithium (Li)	1.18	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	1.58	0.050	ug/L	+/- 0.190	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.04	0.050	ug/L	+/- 0.142	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.364	0.020	ug/L	+/- 0.130	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	3.1	2.0	ug/L	+/- 5.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	29.2	0.040	ug/L	+/- 4.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	2040	50	ug/L	+/- 304	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1060	0.050	ug/L	+/- 78.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0433	0.0020	ug/L	+/- 0.0059	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	3.90	0.0020	ug/L	+/- 0.498	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.23	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.38	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	117	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	55.0	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.908	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	0.423	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	128	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	46.4	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.71	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	39.3	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	32.4	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0230	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.12	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.039	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.39	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	72.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.169	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	1.55	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	4.90	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9161 DUPLICATE (DUP)								
Sampling Date 2019/09/24 09:15								
Matrix WATER								
Sample # DUPLICATE (DUP)								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Molybdenum (Mo)	1.07	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	0.44	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	9.7	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	29.7	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	2250	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1120	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0500	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	3.2	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	3.84	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.27	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	126	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	58.1	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	0.98	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	0.46	0.25	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	137	3.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	137000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0043	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9162 BC 28A								
Sampling Date 2019/09/24 09:30								
Matrix WATER								
Sample # BC 28A								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	1340	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	1390	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	434	20	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	139	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A								
Sampling Date	2019/09/24 09:30							
Matrix	WATER							
Sample #	BC 28A							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	170	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.496(2)	0.0050	mg/L	+/- 0.0460	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.0310	0.00050	mg/L	+/- 0.00590	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	3.7	0.50	mg/L	+/- 0.51	2019/10/03	2019/10/03	KGH	9613066
pH	8.06	N/A	pH	+/- 0.117	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.5	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	28	1.0	mg/L	+/- 1.4	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	980(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.030	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	434(2)	20	mg/L	+/- 67	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	430	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.10	0.0030	mg/L	+/- 0.015	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	4510	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	3720(1)	1.1	mg/L	+/- 128	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	19	10	ug/L	+/- 38	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	2010	0.40	ug/L	+/- 185	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	267	0.40	ug/L	+/- 27.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	37.7	0.40	ug/L	+/- 3.29	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.32	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	2.2	2.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	679	0.10	ug/L	+/- 74.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	2.0	1.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	197	20	ug/L	+/- 20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A								
Sampling Date	2019/09/24 09:30							
Matrix	WATER							
Sample #	BC 28A							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Manganese (Mn)	22.1	1.0	ug/L	+/- 2.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	15.8	1.0	ug/L	+/- 2.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	10.4	0.40	ug/L	+/- 2.57	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	65	40	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	177	0.80	ug/L	+/- 27.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4410	1000	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1810	1.0	ug/L	+/- 135	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.323	0.040	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	28.3	0.040	ug/L	+/- 3.60	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	14.0	2.0	ug/L	+/- 3.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	383	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	92.6	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	6.2	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	453	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	319	60	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	<60	60	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	2180	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	283	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	39.2	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.42	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	698	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.4	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	250	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.40	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	22.1	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	18.3	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BV Labs Job #: B982249
 Report Date: 2019/10/11

Golden Predator Exploration
 Client Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9162 BC 28A Sampling Date 2019/09/24 09:30 Matrix WATER Sample # BC 28A								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Nickel (Ni)	10.8	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	<100	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	180	0.80	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	4320	1000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1890	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.321	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<40	40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	28.5	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	23	20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	399	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	95.1	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	5.5	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	477	5.0	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	336	60	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	336000	12000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0345	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0254	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9163 BC 28B Sampling Date 2019/09/24 09:50 Matrix WATER Sample # BC 28B								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.372	0.0050	mg/L	+/- 0.0203	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	1040	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	1090	0.50	mg/L	N/A	2019/10/03	2019/10/03		9605931
Nitrate (N)	272	4.0	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	67.6	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Bicarbonate (HCO3)	82.5	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.00587	0.00050	mg/L	+/- 0.00404	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.00421	0.00050	mg/L	+/- 0.00086	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	6.3	0.50	mg/L	+/- 0.74	2019/10/03	2019/10/03	KGH	9613066
pH	7.60	N/A	pH	+/- 0.110	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	9.8	1.0	mg/L	+/- 1.6	2019/09/30	2019/09/30	EH2	9608536
Anions								
Dissolved Chloride (Cl)	20	1.0	mg/L	+/- 1.2	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	850(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.075	0.0050	mg/L	+/- 0.010	2019/10/05	2019/10/05	FM0	9615091
Nitrate plus Nitrite (N)	272(2)	4.0	mg/L	+/- 42.0	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	270	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.024	0.0030	mg/L	+/- 0.0052	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.42	0.050	mg/L	+/- 0.11	2019/10/10	2019/10/11	JLD	9623243
Physical Properties								
Conductivity	3520	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	2850(1)	1.2	mg/L	+/- 98.3	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	60	10	ug/L	+/- 118	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	1770	0.40	ug/L	+/- 164	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	164	0.40	ug/L	+/- 16.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	32.6	0.40	ug/L	+/- 2.85	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<200	200	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	419	0.10	ug/L	+/- 46.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	2.0	1.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	20	20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	11.4	1.0	ug/L	+/- 1.1	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B								
Sampling Date	2019/09/24 09:50							
Matrix	WATER							
Sample #	BC 28B							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Molybdenum (Mo)	17.7	1.0	ug/L	+/- 2.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	6.89	0.40	ug/L	+/- 1.70	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	<40	40	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	128	0.80	ug/L	+/- 20.2	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	<1000	1000	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	1460	1.0	ug/L	+/- 109	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.219	0.040	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	21.1	0.040	ug/L	+/- 2.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	2.5	2.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	288	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	79.1	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	4.8	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	345	1.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	292	60	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	83	30	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	1920	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	172	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	35.4	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<100	100	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	447	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	53	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	5.0	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	30.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	18.5	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	6.8	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9163 BC 28B Sampling Date 2019/09/24 09:50 Matrix WATER Sample # BC 28B								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Phosphorus (P)	<50	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	128	0.40	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	<500	500	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	1520	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.225	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<20	20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	20.7	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	301	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Magnesium (Mg)	82.0	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Potassium (K)	4.8	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sodium (Na)	361	2.5	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	298	30	mg/L	N/A	2019/10/03	2019/10/03		9606117
Total Sulphur (S)	298000	6000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0060	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0030	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9164 BC 28 Sampling Date 2019/09/24 10:18 Matrix WATER Sample # BC 28								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.156	0.0050	mg/L	+/- 0.0086	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	431	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	410	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	125	2.0	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	31.1	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	37.9	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.0390	0.00050	mg/L	+/- 0.00538	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.0273	0.00050	mg/L	+/- 0.00519	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	2.9	0.50	mg/L	+/- <RDL	2019/10/03	2019/10/03	KGH	9613066
pH	6.97	N/A	pH	+/- 0.101	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	3.0	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	13	1.0	mg/L	+/- 1.0	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	410(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.18	0.0050	mg/L	+/- 0.024	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	125(2)	2.0	mg/L	+/- 19.3	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	130	0.055	mg/L	N/A	2019/10/05	2019/10/05		9606024
Total Phosphorus (P)	0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.50(3)	0.50	mg/L	N/A	2019/10/03	2019/10/04	JLD	9612872
Physical Properties								
Conductivity	1850	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	1390(1)	1.1	mg/L	+/- 47.9	2019/09/28	2019/09/28	EH2	9607361
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	6.0	2.5	ug/L	+/- 13.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	712	0.10	ug/L	+/- 65.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	14.8	0.10	ug/L	+/- 1.53	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	68.7	0.10	ug/L	+/- 6.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<50	50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	36.1	0.025	ug/L	+/- 3.96	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.59	0.25	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	5.3	5.0	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<2.5	2.5	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	2.13	0.25	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	9.40	0.25	ug/L	+/- 1.17	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Nickel (Ni)	0.69	0.10	ug/L	+/- 0.20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	13	10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	65.3	0.20	ug/L	+/- 10.3	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	737	250	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.025	0.025	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	709	0.25	ug/L	+/- 52.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.026	0.010	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<2.5	2.5	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	6.89	0.010	ug/L	+/- 0.878	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.80	0.50	ug/L	+/- 1.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	109	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	38.9	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	3.35	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	195	0.25	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	148	15	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	7.8	2.5	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	695	0.10	ug/L	+/- 64.2	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	13.8	0.10	ug/L	+/- 1.43	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	63.3	0.10	ug/L	+/- 5.53	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	<50	50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	33.2	0.025	ug/L	+/- 3.64	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	0.54	0.25	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Iron (Fe)	6.2	5.0	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	<2.5	2.5	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	3.04	0.25	ug/L	+/- 0.33	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	8.13	0.25	ug/L	+/- 0.96	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	0.49	0.10	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	<10	10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9164 BC 28								
Sampling Date	2019/09/24 10:18							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Selenium (Se)	58.5	0.20	ug/L	+/- 7.82	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	664	250	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Silver (Ag)	<0.025	0.025	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	649	0.25	ug/L	+/- 48.3	2019/10/02	2019/10/02	AA1	9610472
Total Thallium (Tl)	0.029	0.010	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	<2.5	2.5	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	6.09	0.010	ug/L	+/- 0.775	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	1.29	0.50	ug/L	+/- <RDL	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	105	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	36.1	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	3.19	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	184	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	144	15	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Dissolved Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
pH	4.84	N/A	pH	+/- 0.0702	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	EH2	9609259
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	<0.50	0.50	mg/L	N/A	2019/10/03	2019/10/03	KGH	9612234
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	1.4	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.039	0.0050	mg/L	+/- 0.0053	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	<0.055	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	<0.0030	0.0030	mg/L	N/A	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	<0.050	0.050	mg/L	N/A	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	<1.0	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	<0.020	0.020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	<2.0	2.0	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Selenium (Se)	<0.040	0.040	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	<50	50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	<0.050	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	<3.0	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Antimony (Sb)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Arsenic (As)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Barium (Ba)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Boron (B)	<10	10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Copper (Cu)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Iron (Fe)	<1.0	1.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Lithium (Li)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Manganese (Mn)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Nickel (Ni)	<0.020	0.020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Phosphorus (P)	<2.0	2.0	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Selenium (Se)	<0.040	0.040	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Silicon (Si)	<50	50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9165 TRIP BLANK								
Sampling Date	2019/09/26 10:40							
Matrix	WATER							
Sample #	TRIP BLANK							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Strontium (Sr)	<0.050	0.050	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Uranium (U)	<0.0020	0.0020	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zinc (Zn)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/10/02	2019/10/02	AA1	9610472
Total Calcium (Ca)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	<0.050	0.050	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	<3.0	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	533	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	567	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	3.14	0.10	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	196	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	239	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	0.00105	0.00050	mg/L	+/- 0.00400	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	0.00071	0.00050	mg/L	+/- <RDL	2019/10/01	2019/10/01	TMU	9608061



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Dissolved Organic Carbon (C)	3.8	0.50	mg/L	+/- 0.52	2019/10/03	2019/10/03	KGH	9613066
pH	8.28	N/A	pH	+/- 0.120	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	8.9	1.0	mg/L	+/- 1.5	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	2.1	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	BB3	9610275
Dissolved Sulphate (SO4)	350(2)	10	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.058	0.0050	mg/L	+/- 0.0078	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	3.14(2)	0.10	mg/L	+/- 0.48	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	3.5	0.055	mg/L	N/A	2019/10/05	2019/10/05		9606024
Total Phosphorus (P)	0.0055	0.0030	mg/L	+/- 0.0037	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.37(1)	0.25	mg/L	+/- <RDL	2019/10/03	2019/10/04	JLD	9612872
Physical Properties								
Conductivity	1040	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	790	1.0	mg/L	+/- 27.3	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.56	0.50	ug/L	+/- 8.35	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	0.611	0.020	ug/L	+/- 0.063	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	0.374	0.020	ug/L	+/- 0.063	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	50.3	0.020	ug/L	+/- 4.39	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0095	0.0050	ug/L	+/- 0.0073	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	5.88	0.0050	ug/L	+/- 0.646	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.423	0.050	ug/L	+/- 0.124	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	87.5	1.0	ug/L	+/- 9.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	15.8	0.50	ug/L	+/- 1.31	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	41.2	0.050	ug/L	+/- 4.04	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	0.415	0.050	ug/L	+/- 0.071	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	0.813	0.020	ug/L	+/- 0.229	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	5.8	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	4.62	0.040	ug/L	+/- 0.732	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4690	50	ug/L	+/- 695	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02								
Sampling Date	2019/09/24 11:55							
Matrix	WATER							
Sample #	BC 02							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	342	0.050	ug/L	+/- 25.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.58	0.0020	ug/L	+/- 0.330	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.44	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	0.53	0.10	ug/L	+/- 1.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	129	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	51.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	2.01	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	9.64	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	117	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	171	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	0.633	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	0.469	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	56.8	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	11	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0172	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.26	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	6.06	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	0.71	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	338	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.173	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	19.6	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	43.5	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	0.458	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	1.05	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	13.8	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	4.78	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	5750	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	358	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9166 BC 02 Sampling Date 2019/09/24 11:55 Matrix WATER Sample # BC 02								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Thallium (Tl)	0.0028	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	0.21	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	6.5	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.54	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	0.63	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	1.4	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	136	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	54.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	2.04	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	10.4	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	128	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	128000	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9609053
WO9167 BC 03 Sampling Date 2019/09/24 10:45 Matrix WATER Sample # BC 03								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	265	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.167	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	138	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	169	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.7	0.50	mg/L	+/- 0.59	2019/10/03	2019/10/03	KGH	9613066



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03								
Sampling Date	2019/09/24 10:45							
Matrix	WATER							
Sample #	BC 03							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
pH	8.15	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	11	1.0	mg/L	+/- 1.8	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9609569
Nutrients								
Total Ammonia (N)	0.021	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.167	0.020	mg/L	+/- 0.026	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.38	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0069	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.22	0.050	mg/L	+/- 0.074	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	559	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	377(1)	1.1	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	50.5	0.50	ug/L	+/- 99.7	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	4.38	0.020	ug/L	+/- 0.409	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	1.84	0.020	ug/L	+/- 0.202	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	50.8	0.020	ug/L	+/- 4.44	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.036	0.010	ug/L	+/- 0.010	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0537	0.0050	ug/L	+/- 0.0100	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.13	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	1.20	0.0050	ug/L	+/- 0.133	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	1.16	0.050	ug/L	+/- 0.158	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	196	1.0	ug/L	+/- 19.4	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0122	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	13.2	0.50	ug/L	+/- 1.10	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	82.1	0.050	ug/L	+/- 8.01	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.47	0.050	ug/L	+/- 0.316	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	5.73	0.020	ug/L	+/- 1.42	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	14.0	2.0	ug/L	+/- 6.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.48	0.040	ug/L	+/- 0.239	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4160	50	ug/L	+/- 617	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530

(1) Detection limits raised due to insufficient sample volume.
(2) Detection limits raised due to dilution to bring analyte within the calibrated range.
(3) Detection limits raised due to insufficient sample volume.
Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar results.



BV Labs Job #: B982249
 Report Date: 2019/10/11

Golden Predator Exploration
 Client Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03								
Sampling Date	2019/09/24 10:45							
Matrix	WATER							
Sample #	BC 03							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Strontium (Sr)	329	0.050	ug/L	+/- 24.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0022	0.0020	ug/L	+/- 0.0031	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.13	0.0020	ug/L	+/- 0.272	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.51	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	8.34	0.10	ug/L	+/- 2.49	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.16	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	65.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.35	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.37	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	47.6	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	251	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	4.73	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	3.40	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	57.9	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.062	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0907	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.45	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	1.52	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.72	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	662	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.172	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	15.1	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	104	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	2.61	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	6.88	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	23.8	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.57	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	4830	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	338	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0067	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9167 BC 03 Sampling Date 2019/09/24 10:45 Matrix WATER Sample # BC 03								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Tin (Sn)	0.22	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	8.3	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.13	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	1.08	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	13.5	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.15	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	70.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	27.2	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.40	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	3.62	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	51.9	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	51900	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9168 BC-01 Sampling Date 2019/09/24 15:00 Matrix WATER Sample # BC-01								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	267	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.220	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	140	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	171	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.8	0.50	mg/L	+/- 0.60	2019/10/03	2019/10/03	KGH	9613066
pH	8.12	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01								
Sampling Date	2019/09/24 15:00							
Matrix	WATER							
Sample #	BC-01							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Total Suspended Solids	56	1.0	mg/L	+/- 8.2	2019/09/30	2019/09/30	EH2	9609259
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Dissolved Sulphate (SO4)	150	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Nutrients								
Total Ammonia (N)	0.024	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.220	0.020	mg/L	+/- 0.034	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.49	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.028	0.0030	mg/L	+/- 0.0056	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.27	0.050	mg/L	+/- 0.082	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	557	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	376	1.0	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	17.8	0.50	ug/L	+/- 36.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.47	0.020	ug/L	+/- 0.325	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.44	0.020	ug/L	+/- 0.364	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	52.3	0.020	ug/L	+/- 4.57	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.011	0.010	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0205	0.0050	ug/L	+/- 0.0076	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.18	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.481	0.0050	ug/L	+/- 0.0543	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.943	0.050	ug/L	+/- 0.146	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	145	1.0	ug/L	+/- 14.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0111	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	11.4	0.50	ug/L	+/- 0.95	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	40.8	0.050	ug/L	+/- 4.00	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	3.20	0.050	ug/L	+/- 0.406	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.68	0.020	ug/L	+/- 0.678	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	9.7	2.0	ug/L	+/- 6.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.56	0.040	ug/L	+/- 0.251	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4630	50	ug/L	+/- 686	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	314	0.050	ug/L	+/- 23.3	2019/09/30	2019/09/30	VCN	9608530



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01								
Sampling Date	2019/09/24 15:00							
Matrix	WATER							
Sample #	BC-01							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.43	0.0020	ug/L	+/- 0.311	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.81	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	1.42	0.10	ug/L	+/- 1.70	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.15	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	66.3	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.6	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.32	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.80	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	46.0	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	722	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.61	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	5.60	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	77.4	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.047	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0553	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	1.16	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	1.12	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	2.56	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	1530	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.488	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	13.1	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	91.9	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	3.05	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	4.45	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	47.1	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.64	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	6450	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	322	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0091	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9168 BC-01 Sampling Date 2019/09/24 15:00 Matrix WATER Sample # BC-01								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Titanium (Ti)	27.7	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.40	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	2.76	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	6.9	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.20	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	72.8	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.0	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.36	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	4.10	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	48.5	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	48500	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9169 BC-37 Sampling Date 2019/09/24 14:00 Matrix WATER Sample # BC-37								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607474
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	266	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	289	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.236	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	141	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	171	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.8	0.50	mg/L	+/- 0.61	2019/10/03	2019/10/03	KGH	9613066
pH	8.16	N/A	pH	+/- 0.118	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	17	1.0	mg/L	+/- 2.6	2019/09/30	2019/09/30	EH2	9609259



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Dissolved Sulphate (SO4)	150	1.0	mg/L	N/A	2019/10/01	2019/10/01	BB3	9610275
Nutrients								
Total Ammonia (N)	0.018	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.236	0.020	mg/L	+/- 0.037	2019/09/28	2019/09/28	MO5	9607473
Total Nitrogen (N)	0.48	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.013	0.0030	mg/L	+/- 0.0041	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.24	0.050	mg/L	+/- 0.078	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	553	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	375	1.0	mg/L	+/- 13.0	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	17.9	0.50	ug/L	+/- 36.1	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	3.46	0.020	ug/L	+/- 0.324	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	3.33	0.020	ug/L	+/- 0.353	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	51.5	0.020	ug/L	+/- 4.50	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0166	0.0050	ug/L	+/- 0.0075	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	0.13	0.10	ug/L	+/- 0.23	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.471	0.0050	ug/L	+/- 0.0533	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	0.892	0.050	ug/L	+/- 0.143	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	127	1.0	ug/L	+/- 12.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0114	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	11.5	0.50	ug/L	+/- 0.96	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	38.0	0.050	ug/L	+/- 3.72	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	2.97	0.050	ug/L	+/- 0.377	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.50	0.020	ug/L	+/- 0.633	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	9.6	2.0	ug/L	+/- 6.0	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	1.57	0.040	ug/L	+/- 0.253	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	4670	50	ug/L	+/- 691	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	317	0.050	ug/L	+/- 23.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37								
Sampling Date	2019/09/24 14:00							
Matrix	WATER							
Sample #	BC-37							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Uranium (U)	2.41	0.0020	ug/L	+/- 0.308	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.78	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	1.13	0.10	ug/L	+/- 1.69	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	0.15	0.10	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	65.7	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	24.9	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	1.30	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	3.79	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	46.2	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	375	3.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	3.78	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	4.84	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	65.8	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	0.031	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.0416	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	0.69	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.802	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.74	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	878	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	0.277	0.020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	13.0	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	63.9	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	3.15	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	3.57	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	26.4	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	1.64	0.040	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	5800	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	322	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	0.0058	0.0020	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	13.4	2.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.49	0.0050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9169 BC-37 Sampling Date 2019/09/24 14:00 Matrix WATER Sample # BC-37								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Vanadium (V)	1.78	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zinc (Zn)	4.3	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	0.17	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	72.3	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	26.4	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	1.33	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	4.02	0.25	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	50.7	3.0	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	50700	600	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768
WO9170 BC-34 Sampling Date 2019/09/23 17:00 Matrix WATER Sample # BC-34								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	2019/09/28	2019/09/28	MO5	9607476
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	2019/09/27	2019/09/27		ONSITE
Dissolved Hardness (CaCO3)	313	0.50	mg/L	N/A	2019/10/01	2019/10/01		9605860
Total Hardness (CaCO3)	306	0.50	mg/L	N/A	2019/10/02	2019/10/02		9605931
Nitrate (N)	0.225	0.020	mg/L	N/A	2019/09/28	2019/09/28		9606608
Misc. Inorganics								
Alkalinity (Total as CaCO3)	147	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Bicarbonate (HCO3)	179	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	2019/10/01	2019/10/01	CGP	9609472
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608058
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	2019/10/01	2019/10/01	TMU	9608061
Dissolved Organic Carbon (C)	4.2	0.50	mg/L	+/- 0.56	2019/10/03	2019/10/03	KGH	9613066
pH	8.20	N/A	pH	+/- 0.119	2019/10/01	2019/10/01	CGP	9609476
Total Suspended Solids	2.7	1.0	mg/L	+/- <RDL	2019/09/30	2019/09/30	EH2	9608060
Anions								
Dissolved Chloride (Cl)	<1.0	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Sulphate (SO4)	160	1.0	mg/L	N/A	2019/09/30	2019/09/30	BB3	9610275
Nutrients								
Total Ammonia (N)	0.013	0.0050	mg/L	+/- <RDL	2019/10/03	2019/10/03	FM0	9613067
Nitrate plus Nitrite (N)	0.225	0.020	mg/L	+/- 0.035	2019/09/28	2019/09/28	MO5	9607475
Total Nitrogen (N)	0.45	0.055	mg/L	N/A	2019/10/03	2019/10/03		9606024
Total Phosphorus (P)	0.0071	0.0030	mg/L	+/- 0.0038	2019/10/03	2019/10/04	MB5	9613104
Total Total Kjeldahl Nitrogen	0.22	0.050	mg/L	+/- 0.074	2019/10/03	2019/10/03	JLD	9612868
Physical Properties								
Conductivity	597	1.0	uS/cm	N/A	2019/10/01	2019/10/01	CGP	9609474
Physical Properties								
Total Dissolved Solids	407	1.0	mg/L	+/- 14.1	2019/09/30	2019/09/30	HE1	9608866
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	4.26	0.50	ug/L	+/- 9.68	2019/09/30	2019/09/30	VCN	9608530
Dissolved Antimony (Sb)	0.302	0.020	ug/L	+/- 0.036	2019/09/30	2019/09/30	VCN	9608530
Dissolved Arsenic (As)	0.231	0.020	ug/L	+/- 0.053	2019/09/30	2019/09/30	VCN	9608530
Dissolved Barium (Ba)	48.1	0.020	ug/L	+/- 4.20	2019/09/30	2019/09/30	VCN	9608530
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Boron (B)	<10	10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cadmium (Cd)	0.0912	0.0050	ug/L	+/- 0.0139	2019/09/30	2019/09/30	VCN	9608530
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Cobalt (Co)	0.0383	0.0050	ug/L	+/- 0.0090	2019/09/30	2019/09/30	VCN	9608530
Dissolved Copper (Cu)	1.13	0.050	ug/L	+/- 0.156	2019/09/30	2019/09/30	VCN	9608530
Dissolved Iron (Fe)	17.8	1.0	ug/L	+/- 2.5	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lead (Pb)	0.0076	0.0050	ug/L	+/- 0.0150	2019/09/30	2019/09/30	VCN	9608530
Dissolved Lithium (Li)	2.68	0.50	ug/L	+/- <RDL	2019/09/30	2019/09/30	VCN	9608530
Dissolved Manganese (Mn)	7.72	0.050	ug/L	+/- 0.776	2019/09/30	2019/09/30	VCN	9608530
Dissolved Molybdenum (Mo)	1.95	0.050	ug/L	+/- 0.252	2019/09/30	2019/09/30	VCN	9608530
Dissolved Nickel (Ni)	2.48	0.020	ug/L	+/- 0.629	2019/09/30	2019/09/30	VCN	9608530
Dissolved Phosphorus (P)	4.9	2.0	ug/L	+/- 5.6	2019/09/30	2019/09/30	VCN	9608530
Dissolved Selenium (Se)	2.90	0.040	ug/L	+/- 0.463	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silicon (Si)	3150	50	ug/L	+/- 468	2019/09/30	2019/09/30	VCN	9608530
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Strontium (Sr)	319	0.050	ug/L	+/- 23.8	2019/09/30	2019/09/30	VCN	9608530
Dissolved Thallium (Tl)	0.0022	0.0020	ug/L	+/- 0.0031	2019/09/30	2019/09/30	VCN	9608530
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Uranium (U)	2.37	0.0020	ug/L	+/- 0.302	2019/09/30	2019/09/30	VCN	9608530
Dissolved Vanadium (V)	0.92	0.20	ug/L	+/- 0.40	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zinc (Zn)	9.42	0.10	ug/L	+/- 2.67	2019/09/30	2019/09/30	VCN	9608530
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/09/30	VCN	9608530
Dissolved Calcium (Ca)	78.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Magnesium (Mg)	28.4	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Potassium (K)	0.793	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sodium (Na)	1.57	0.050	mg/L	N/A	2019/10/01	2019/10/01		9605922
Dissolved Sulphur (S)	55.4	3.0	mg/L	N/A	2019/10/01	2019/10/01		9605922
Total Metals by ICPMS								
Total Aluminum (Al)	39	15	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Antimony (Sb)	0.26	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Arsenic (As)	0.19	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Barium (Ba)	49.1	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Beryllium (Be)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Bismuth (Bi)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Boron (B)	<50	50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cadmium (Cd)	0.117	0.025	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Chromium (Cr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Cobalt (Co)	0.071	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Copper (Cu)	1.34	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Iron (Fe)	81	25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lead (Pb)	<0.10	0.10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Lithium (Li)	3.1	2.5	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Manganese (Mn)	11.9	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Molybdenum (Mo)	1.74	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Nickel (Ni)	2.85	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Phosphorus (P)	<25	25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Selenium (Se)	2.93	0.20	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silicon (Si)	3160	250	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Silver (Ag)	<0.050	0.050	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Strontium (Sr)	312	0.25	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Thallium (Tl)	<0.010	0.010	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Tin (Sn)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Titanium (Ti)	<10	10	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Uranium (U)	2.19	0.025	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Vanadium (V)	<1.0	1.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WO9170 BC-34								
Sampling Date	2019/09/23 17:00							
Matrix	WATER							
Sample #	BC-34							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Zinc (Zn)	12.2	5.0	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Zirconium (Zr)	<0.50	0.50	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
Total Calcium (Ca)	74.9	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Magnesium (Mg)	29.0	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Potassium (K)	<1.3	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sodium (Na)	1.6	1.3	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	56	15	mg/L	N/A	2019/10/02	2019/10/02		9606117
Total Sulphur (S)	55900	3000	ug/L	N/A	2019/09/30	2019/10/01	AA1	9609329
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608614
Total Mercury (Hg)	0.0029	0.0020	ug/L	N/A	2019/09/30	2019/09/30	CJY	9608768



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	0.7°C
Package 3	0.7°C
Package 4	0.7°C
Package 5	3.0°C

DOC on all samples added as per client request received 2019/09/27.

Sample WO9155 [BC-04] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9156 [BC-17] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9157 [BC-10] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9158 [BC 51W] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9159 [BC 12] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9160 [BC 15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9161 [DUPLICATE (DUP)] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9162 [BC 28A] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9163 [BC 28B] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9164 [BC 28] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9166 [BC 02] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

Sample WO9167 [BC 03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9168 [BC-01] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9169 [BC-37] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample WO9170 [BC-34] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

Sample WO9162 [BC 28A] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9162 [BC 28A] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9163 [BC 28B] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9163 [BC 28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9164 [BC 28] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9164 [BC 28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WO9170 [BC-34] Elements by ICPMS Digested LL (total): RDL raised due to limited initial sample amount.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9607361	EH2	Matrix Spike	Total Dissolved Solids	2019/09/28		99	%	80 - 120
9607361	EH2	Spiked Blank	Total Dissolved Solids	2019/09/28		112	%	80 - 120
9607361	EH2	Method Blank	Total Dissolved Solids	2019/09/28	<1.0		mg/L	
9607361	EH2	RPD	Total Dissolved Solids	2019/09/28	NC		%	20
9607473	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2019/09/28		109	%	80 - 120
9607473	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/09/28		106	%	80 - 120
9607473	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/09/28	<0.020		mg/L	
9607473	MO5	RPD	Nitrate plus Nitrite (N)	2019/09/28	3.0		%	25
9607474	MO5	Matrix Spike	Nitrite (N)	2019/09/28		97	%	80 - 120
9607474	MO5	Spiked Blank	Nitrite (N)	2019/09/28		100	%	80 - 120
9607474	MO5	Method Blank	Nitrite (N)	2019/09/28	<0.0050		mg/L	
9607474	MO5	RPD	Nitrite (N)	2019/09/28	NC		%	20
9607475	MO5	Matrix Spike [WO9156-02]	Nitrate plus Nitrite (N)	2019/09/28		103	%	80 - 120
9607475	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/09/28		107	%	80 - 120
9607475	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/09/28	<0.020		mg/L	
9607475	MO5	RPD [WO9156-02]	Nitrate plus Nitrite (N)	2019/09/28	NC		%	25
9607476	MO5	Matrix Spike [WO9156-02]	Nitrite (N)	2019/09/28		94	%	80 - 120
9607476	MO5	Spiked Blank	Nitrite (N)	2019/09/28		101	%	80 - 120
9607476	MO5	Method Blank	Nitrite (N)	2019/09/28	<0.0050		mg/L	
9607476	MO5	RPD [WO9156-02]	Nitrite (N)	2019/09/28	NC		%	20
9607681	EH2	Matrix Spike [WO9155-01]	Total Suspended Solids	2019/09/29		97	%	80 - 120
9607681	EH2	Spiked Blank	Total Suspended Solids	2019/09/29		92	%	80 - 120
9607681	EH2	Method Blank	Total Suspended Solids	2019/09/29	<1.0		mg/L	
9607681	EH2	RPD [WO9155-01]	Total Suspended Solids	2019/09/29	9.2		%	20
9608058	TMU	Matrix Spike [WO9162-06]	Strong Acid Dissoc. Cyanide (CN)	2019/10/01		NC	%	80 - 120
9608058	TMU	Spiked Blank	Strong Acid Dissoc. Cyanide (CN)	2019/10/01		100	%	80 - 120
9608058	TMU	Method Blank	Strong Acid Dissoc. Cyanide (CN)	2019/10/01	<0.00050		mg/L	
9608058	TMU	RPD [WO9162-06]	Strong Acid Dissoc. Cyanide (CN)	2019/10/01	2.8		%	20
9608060	EH2	Matrix Spike	Total Suspended Solids	2019/09/30		91	%	80 - 120
9608060	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		96	%	80 - 120
9608060	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
9608060	EH2	RPD	Total Suspended Solids	2019/09/30	NC		%	20
9608061	TMU	Matrix Spike [WO9162-06]	Weak Acid Dissoc. Cyanide (CN)	2019/10/01		95	%	80 - 120
9608061	TMU	Spiked Blank	Weak Acid Dissoc. Cyanide (CN)	2019/10/01		101	%	80 - 120
9608061	TMU	Method Blank	Weak Acid Dissoc. Cyanide (CN)	2019/10/01	<0.00050		mg/L	
9608061	TMU	RPD [WO9162-06]	Weak Acid Dissoc. Cyanide (CN)	2019/10/01	2.3		%	20
9608406	CJY	Matrix Spike	Total Mercury (Hg)	2019/09/30		38 (1)	%	80 - 120
9608406	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		99	%	80 - 120
9608406	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9608406	CJY	RPD	Total Mercury (Hg)	2019/09/30	NC		%	20
9608530	VCN	Matrix Spike [WO9155-10]	Dissolved Aluminum (Al)	2019/09/30		92	%	80 - 120
			Dissolved Antimony (Sb)	2019/09/30		97	%	80 - 120
			Dissolved Arsenic (As)	2019/09/30		98	%	80 - 120
			Dissolved Barium (Ba)	2019/09/30		NC	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/30		91	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/30		97	%	80 - 120
			Dissolved Boron (B)	2019/09/30		86	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/30		98	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2019/09/30		98	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/30		98	%	80 - 120
			Dissolved Copper (Cu)	2019/09/30		94	%	80 - 120
			Dissolved Iron (Fe)	2019/09/30		97	%	80 - 120
			Dissolved Lead (Pb)	2019/09/30		102	%	80 - 120
			Dissolved Lithium (Li)	2019/09/30		85	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/30		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/30		104	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/30		96	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/30		98	%	80 - 120
			Dissolved Selenium (Se)	2019/09/30		102	%	80 - 120
			Dissolved Silicon (Si)	2019/09/30		89	%	80 - 120
			Dissolved Silver (Ag)	2019/09/30		97	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/30		NC	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/30		99	%	80 - 120
			Dissolved Tin (Sn)	2019/09/30		91	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/30		99	%	80 - 120
			Dissolved Uranium (U)	2019/09/30		104	%	80 - 120
			Dissolved Vanadium (V)	2019/09/30		101	%	80 - 120
			Dissolved Zinc (Zn)	2019/09/30		100	%	80 - 120
			Dissolved Zirconium (Zr)	2019/09/30		99	%	80 - 120
9608530	VCN	Spiked Blank	Dissolved Aluminum (Al)	2019/09/30		96	%	80 - 120
			Dissolved Antimony (Sb)	2019/09/30		100	%	80 - 120
			Dissolved Arsenic (As)	2019/09/30		100	%	80 - 120
			Dissolved Barium (Ba)	2019/09/30		100	%	80 - 120
			Dissolved Beryllium (Be)	2019/09/30		95	%	80 - 120
			Dissolved Bismuth (Bi)	2019/09/30		103	%	80 - 120
			Dissolved Boron (B)	2019/09/30		91	%	80 - 120
			Dissolved Cadmium (Cd)	2019/09/30		102	%	80 - 120
			Dissolved Chromium (Cr)	2019/09/30		102	%	80 - 120
			Dissolved Cobalt (Co)	2019/09/30		103	%	80 - 120
			Dissolved Copper (Cu)	2019/09/30		101	%	80 - 120
			Dissolved Iron (Fe)	2019/09/30		102	%	80 - 120
			Dissolved Lead (Pb)	2019/09/30		107	%	80 - 120
			Dissolved Lithium (Li)	2019/09/30		92	%	80 - 120
			Dissolved Manganese (Mn)	2019/09/30		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/09/30		100	%	80 - 120
			Dissolved Nickel (Ni)	2019/09/30		103	%	80 - 120
			Dissolved Phosphorus (P)	2019/09/30		98	%	80 - 120
			Dissolved Selenium (Se)	2019/09/30		102	%	80 - 120
			Dissolved Silicon (Si)	2019/09/30		100	%	80 - 120
			Dissolved Silver (Ag)	2019/09/30		100	%	80 - 120
			Dissolved Strontium (Sr)	2019/09/30		99	%	80 - 120
			Dissolved Thallium (Tl)	2019/09/30		102	%	80 - 120
			Dissolved Tin (Sn)	2019/09/30		94	%	80 - 120
			Dissolved Titanium (Ti)	2019/09/30		101	%	80 - 120
			Dissolved Uranium (U)	2019/09/30		106	%	80 - 120
			Dissolved Vanadium (V)	2019/09/30		102	%	80 - 120
			Dissolved Zinc (Zn)	2019/09/30		109	%	80 - 120
			Dissolved Zirconium (Zr)	2019/09/30		97	%	80 - 120
9608530	VCN	Method Blank	Dissolved Aluminum (Al)	2019/09/30	<0.50		ug/L	
			Dissolved Antimony (Sb)	2019/09/30	<0.020		ug/L	
			Dissolved Arsenic (As)	2019/09/30	<0.020		ug/L	
			Dissolved Barium (Ba)	2019/09/30	<0.020		ug/L	



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Beryllium (Be)	2019/09/30	<0.010		ug/L	
			Dissolved Bismuth (Bi)	2019/09/30	<0.0050		ug/L	
			Dissolved Boron (B)	2019/09/30	<10		ug/L	
			Dissolved Cadmium (Cd)	2019/09/30	<0.0050		ug/L	
			Dissolved Chromium (Cr)	2019/09/30	<0.10		ug/L	
			Dissolved Cobalt (Co)	2019/09/30	<0.0050		ug/L	
			Dissolved Copper (Cu)	2019/09/30	<0.050		ug/L	
			Dissolved Iron (Fe)	2019/09/30	<1.0		ug/L	
			Dissolved Lead (Pb)	2019/09/30	<0.0050		ug/L	
			Dissolved Lithium (Li)	2019/09/30	<0.50		ug/L	
			Dissolved Manganese (Mn)	2019/09/30	<0.050		ug/L	
			Dissolved Molybdenum (Mo)	2019/09/30	<0.050		ug/L	
			Dissolved Nickel (Ni)	2019/09/30	<0.020		ug/L	
			Dissolved Phosphorus (P)	2019/09/30	<2.0		ug/L	
			Dissolved Selenium (Se)	2019/09/30	<0.040		ug/L	
			Dissolved Silicon (Si)	2019/09/30	<50		ug/L	
			Dissolved Silver (Ag)	2019/09/30	<0.0050		ug/L	
			Dissolved Strontium (Sr)	2019/09/30	<0.050		ug/L	
			Dissolved Thallium (Tl)	2019/09/30	<0.0020		ug/L	
			Dissolved Tin (Sn)	2019/09/30	<0.20		ug/L	
			Dissolved Titanium (Ti)	2019/09/30	<0.50		ug/L	
			Dissolved Uranium (U)	2019/09/30	<0.0020		ug/L	
			Dissolved Vanadium (V)	2019/09/30	<0.20		ug/L	
			Dissolved Zinc (Zn)	2019/09/30	<0.10		ug/L	
			Dissolved Zirconium (Zr)	2019/09/30	<0.10		ug/L	
9608530	VCN	RPD [WO9155-10]	Dissolved Aluminum (Al)	2019/09/30	3.6		%	20
			Dissolved Antimony (Sb)	2019/09/30	0.80		%	20
			Dissolved Arsenic (As)	2019/09/30	1.4		%	20
			Dissolved Barium (Ba)	2019/09/30	0.86		%	20
			Dissolved Beryllium (Be)	2019/09/30	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/30	NC		%	20
			Dissolved Boron (B)	2019/09/30	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/30	3.4		%	20
			Dissolved Chromium (Cr)	2019/09/30	6.9		%	20
			Dissolved Cobalt (Co)	2019/09/30	1.2		%	20
			Dissolved Copper (Cu)	2019/09/30	1.7		%	20
			Dissolved Iron (Fe)	2019/09/30	0.71		%	20
			Dissolved Lead (Pb)	2019/09/30	1.1		%	20
			Dissolved Lithium (Li)	2019/09/30	0.18		%	20
			Dissolved Manganese (Mn)	2019/09/30	0.16		%	20
			Dissolved Molybdenum (Mo)	2019/09/30	0.37		%	20
			Dissolved Nickel (Ni)	2019/09/30	0.0056		%	20
			Dissolved Phosphorus (P)	2019/09/30	1.5		%	20
			Dissolved Selenium (Se)	2019/09/30	0.39		%	20
			Dissolved Silicon (Si)	2019/09/30	0.93		%	20
			Dissolved Silver (Ag)	2019/09/30	NC		%	20
			Dissolved Strontium (Sr)	2019/09/30	2.1		%	20
			Dissolved Thallium (Tl)	2019/09/30	2.9		%	20
			Dissolved Tin (Sn)	2019/09/30	NC		%	20
			Dissolved Titanium (Ti)	2019/09/30	NC		%	20
			Dissolved Uranium (U)	2019/09/30	0.88		%	20
			Dissolved Vanadium (V)	2019/09/30	1.7		%	20
			Dissolved Zinc (Zn)	2019/09/30	0.13		%	20
			Dissolved Zirconium (Zr)	2019/09/30	4.0		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9608530	VCN	RPD [WO9165-10]	Dissolved Aluminum (Al)	2019/09/30	NC		%	20
			Dissolved Antimony (Sb)	2019/09/30	NC		%	20
			Dissolved Arsenic (As)	2019/09/30	NC		%	20
			Dissolved Barium (Ba)	2019/09/30	NC		%	20
			Dissolved Beryllium (Be)	2019/09/30	NC		%	20
			Dissolved Bismuth (Bi)	2019/09/30	NC		%	20
			Dissolved Boron (B)	2019/09/30	NC		%	20
			Dissolved Cadmium (Cd)	2019/09/30	NC		%	20
			Dissolved Chromium (Cr)	2019/09/30	NC		%	20
			Dissolved Cobalt (Co)	2019/09/30	NC		%	20
			Dissolved Copper (Cu)	2019/09/30	NC		%	20
			Dissolved Iron (Fe)	2019/09/30	NC		%	20
			Dissolved Lead (Pb)	2019/09/30	NC		%	20
			Dissolved Lithium (Li)	2019/09/30	NC		%	20
			Dissolved Manganese (Mn)	2019/09/30	NC		%	20
			Dissolved Molybdenum (Mo)	2019/09/30	NC		%	20
			Dissolved Nickel (Ni)	2019/09/30	NC		%	20
			Dissolved Phosphorus (P)	2019/09/30	NC		%	20
			Dissolved Selenium (Se)	2019/09/30	NC		%	20
			Dissolved Silicon (Si)	2019/09/30	NC		%	20
			Dissolved Silver (Ag)	2019/09/30	NC		%	20
			Dissolved Strontium (Sr)	2019/09/30	NC		%	20
			Dissolved Thallium (Tl)	2019/09/30	NC		%	20
			Dissolved Tin (Sn)	2019/09/30	NC		%	20
			Dissolved Titanium (Ti)	2019/09/30	NC		%	20
			Dissolved Uranium (U)	2019/09/30	NC		%	20
			Dissolved Vanadium (V)	2019/09/30	NC		%	20
			Dissolved Zinc (Zn)	2019/09/30	NC		%	20
			Dissolved Zirconium (Zr)	2019/09/30	NC		%	20
9608536	EH2	Matrix Spike	Total Suspended Solids	2019/09/30		92	%	80 - 120
9608536	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		90	%	80 - 120
9608536	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
9608536	EH2	RPD	Total Suspended Solids	2019/09/30	NC		%	20
9608614	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/09/30		103	%	80 - 120
9608614	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/09/30		94	%	80 - 120
9608614	CJY	Method Blank	Dissolved Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9608614	CJY	RPD	Dissolved Mercury (Hg)	2019/09/30	NC		%	20
9608768	CJY	Matrix Spike [WO9158-07]	Total Mercury (Hg)	2019/09/30		108	%	80 - 120
9608768	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		94	%	80 - 120
9608768	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9608768	CJY	RPD [WO9158-07]	Total Mercury (Hg)	2019/09/30	9.3		%	20
9608866	HE1	Matrix Spike [WO9166-03]	Total Dissolved Solids	2019/09/30		89	%	80 - 120
9608866	HE1	Spiked Blank	Total Dissolved Solids	2019/09/30		108	%	80 - 120
9608866	HE1	Method Blank	Total Dissolved Solids	2019/09/30	<1.0		mg/L	
9608866	HE1	RPD [WO9168-03]	Total Dissolved Solids	2019/09/30	0.43		%	20
9608924	AA1	Matrix Spike [WO9155-09]	Total Aluminum (Al)	2019/10/02		103	%	80 - 120
			Total Antimony (Sb)	2019/10/02		97	%	80 - 120
			Total Arsenic (As)	2019/10/02		104	%	80 - 120
			Total Barium (Ba)	2019/10/02		NC	%	80 - 120
			Total Beryllium (Be)	2019/10/02		99	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Boron (B)	2019/10/02		98	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		101	%	80 - 120
			Total Chromium (Cr)	2019/10/02		99	%	80 - 120
			Total Cobalt (Co)	2019/10/02		101	%	80 - 120
			Total Copper (Cu)	2019/10/02		95	%	80 - 120
			Total Iron (Fe)	2019/10/02		104	%	80 - 120
			Total Lead (Pb)	2019/10/02		103	%	80 - 120
			Total Lithium (Li)	2019/10/02		102	%	80 - 120
			Total Manganese (Mn)	2019/10/02		NC	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		106	%	80 - 120
			Total Nickel (Ni)	2019/10/02		99	%	80 - 120
			Total Phosphorus (P)	2019/10/02		103	%	80 - 120
			Total Selenium (Se)	2019/10/02		106	%	80 - 120
			Total Silicon (Si)	2019/10/02		110	%	80 - 120
			Total Silver (Ag)	2019/10/02		101	%	80 - 120
			Total Strontium (Sr)	2019/10/02		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/02		102	%	80 - 120
			Total Tin (Sn)	2019/10/02		92	%	80 - 120
			Total Titanium (Ti)	2019/10/02		106	%	80 - 120
			Total Uranium (U)	2019/10/02		107	%	80 - 120
			Total Vanadium (V)	2019/10/02		101	%	80 - 120
			Total Zinc (Zn)	2019/10/02		98	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		104	%	80 - 120
			Total Sulphur (S)	2019/10/02		NC	%	80 - 120
9608924	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/02		100	%	80 - 120
			Total Antimony (Sb)	2019/10/02		101	%	80 - 120
			Total Arsenic (As)	2019/10/02		104	%	80 - 120
			Total Barium (Ba)	2019/10/02		102	%	80 - 120
			Total Beryllium (Be)	2019/10/02		102	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		101	%	80 - 120
			Total Boron (B)	2019/10/02		99	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		104	%	80 - 120
			Total Chromium (Cr)	2019/10/02		100	%	80 - 120
			Total Cobalt (Co)	2019/10/02		102	%	80 - 120
			Total Copper (Cu)	2019/10/02		99	%	80 - 120
			Total Iron (Fe)	2019/10/02		100	%	80 - 120
			Total Lead (Pb)	2019/10/02		102	%	80 - 120
			Total Lithium (Li)	2019/10/02		102	%	80 - 120
			Total Manganese (Mn)	2019/10/02		99	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		101	%	80 - 120
			Total Nickel (Ni)	2019/10/02		103	%	80 - 120
			Total Phosphorus (P)	2019/10/02		99	%	80 - 120
			Total Selenium (Se)	2019/10/02		108	%	80 - 120
			Total Silicon (Si)	2019/10/02		102	%	80 - 120
			Total Silver (Ag)	2019/10/02		103	%	80 - 120
			Total Strontium (Sr)	2019/10/02		99	%	80 - 120
			Total Thallium (Tl)	2019/10/02		100	%	80 - 120
			Total Tin (Sn)	2019/10/02		94	%	80 - 120
			Total Titanium (Ti)	2019/10/02		104	%	80 - 120
			Total Uranium (U)	2019/10/02		104	%	80 - 120
			Total Vanadium (V)	2019/10/02		99	%	80 - 120
			Total Zinc (Zn)	2019/10/02		104	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		101	%	80 - 120
			Total Sulphur (S)	2019/10/02		102	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9608924	AA1	Method Blank	Total Aluminum (Al)	2019/10/02	<3.0		ug/L	
			Total Antimony (Sb)	2019/10/02	<0.020		ug/L	
			Total Arsenic (As)	2019/10/02	<0.020		ug/L	
			Total Barium (Ba)	2019/10/02	<0.050		ug/L	
			Total Beryllium (Be)	2019/10/02	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/02	<0.010		ug/L	
			Total Boron (B)	2019/10/02	<10		ug/L	
			Total Cadmium (Cd)	2019/10/02	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/02	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/02	<0.010		ug/L	
			Total Copper (Cu)	2019/10/02	<0.10		ug/L	
			Total Iron (Fe)	2019/10/02	<5.0		ug/L	
			Total Lead (Pb)	2019/10/02	<0.020		ug/L	
			Total Lithium (Li)	2019/10/02	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/02	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/10/02	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/02	<0.10		ug/L	
			Total Phosphorus (P)	2019/10/02	<5.0		ug/L	
			Total Selenium (Se)	2019/10/02	<0.040		ug/L	
			Total Silicon (Si)	2019/10/02	<50		ug/L	
			Total Silver (Ag)	2019/10/02	<0.010		ug/L	
			Total Strontium (Sr)	2019/10/02	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/02	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/02	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/02	<2.0		ug/L	
			Total Uranium (U)	2019/10/02	<0.0050		ug/L	
			Total Vanadium (V)	2019/10/02	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/02	<1.0		ug/L	
			Total Zirconium (Zr)	2019/10/02	<0.10		ug/L	
			Total Sulphur (S)	2019/10/02	<600		ug/L	
			9608924	AA1	RPD [WO9155-09]	Total Aluminum (Al)	2019/10/02	6.4
Total Antimony (Sb)	2019/10/02	0.66					%	20
Total Arsenic (As)	2019/10/02	0.030					%	20
Total Barium (Ba)	2019/10/02	1.1					%	20
Total Beryllium (Be)	2019/10/02	1.8					%	20
Total Bismuth (Bi)	2019/10/02	NC					%	20
Total Boron (B)	2019/10/02	1.0					%	20
Total Cadmium (Cd)	2019/10/02	3.1					%	20
Total Chromium (Cr)	2019/10/02	4.9					%	20
Total Cobalt (Co)	2019/10/02	3.3					%	20
Total Copper (Cu)	2019/10/02	2.4					%	20
Total Iron (Fe)	2019/10/02	1.9					%	20
Total Lead (Pb)	2019/10/02	1.8					%	20
Total Lithium (Li)	2019/10/02	0.87					%	20
Total Manganese (Mn)	2019/10/02	1.1					%	20
Total Molybdenum (Mo)	2019/10/02	1.5					%	20
Total Nickel (Ni)	2019/10/02	0.30					%	20
Total Phosphorus (P)	2019/10/02	1.6					%	20
Total Selenium (Se)	2019/10/02	2.6					%	20
Total Silicon (Si)	2019/10/02	0.66					%	20
Total Silver (Ag)	2019/10/02	NC					%	20
Total Strontium (Sr)	2019/10/02	0.60					%	20
Total Thallium (Tl)	2019/10/02	4.5					%	20
Total Tin (Sn)	2019/10/02	NC					%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Titanium (Ti)	2019/10/02	1.8		%	20
			Total Uranium (U)	2019/10/02	1.7		%	20
			Total Vanadium (V)	2019/10/02	3.1		%	20
			Total Zinc (Zn)	2019/10/02	2.8		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Sulphur (S)	2019/10/02	1.8		%	20
9609053	CJY	Matrix Spike	Total Mercury (Hg)	2019/09/30		99	%	80 - 120
9609053	CJY	Spiked Blank	Total Mercury (Hg)	2019/09/30		97	%	80 - 120
9609053	CJY	Method Blank	Total Mercury (Hg)	2019/09/30	<0.0020		ug/L	
9609053	CJY	RPD	Total Mercury (Hg)	2019/09/30	NC		%	20
9609259	EH2	Matrix Spike [WO9160-01]	Total Suspended Solids	2019/09/30		93	%	80 - 120
9609259	EH2	Spiked Blank	Total Suspended Solids	2019/09/30		95	%	80 - 120
9609259	EH2	Method Blank	Total Suspended Solids	2019/09/30	<1.0		mg/L	
9609259	EH2	RPD [WO9160-01]	Total Suspended Solids	2019/09/30	NC		%	20
9609329	AA1	Matrix Spike [WO9169-09]	Total Aluminum (Al)	2019/10/01		89	%	80 - 120
			Total Antimony (Sb)	2019/10/01		101	%	80 - 120
			Total Arsenic (As)	2019/10/01		104	%	80 - 120
			Total Barium (Ba)	2019/10/01		NC	%	80 - 120
			Total Beryllium (Be)	2019/10/01		104	%	80 - 120
			Total Bismuth (Bi)	2019/10/01		96	%	80 - 120
			Total Boron (B)	2019/10/01		105	%	80 - 120
			Total Cadmium (Cd)	2019/10/01		104	%	80 - 120
			Total Chromium (Cr)	2019/10/01		99	%	80 - 120
			Total Cobalt (Co)	2019/10/01		100	%	80 - 120
			Total Copper (Cu)	2019/10/01		96	%	80 - 120
			Total Iron (Fe)	2019/10/01		NC	%	80 - 120
			Total Lead (Pb)	2019/10/01		101	%	80 - 120
			Total Lithium (Li)	2019/10/01		103	%	80 - 120
			Total Manganese (Mn)	2019/10/01		NC	%	80 - 120
			Total Molybdenum (Mo)	2019/10/01		102	%	80 - 120
			Total Nickel (Ni)	2019/10/01		97	%	80 - 120
			Total Phosphorus (P)	2019/10/01		105	%	80 - 120
			Total Selenium (Se)	2019/10/01		104	%	80 - 120
			Total Silicon (Si)	2019/10/01		NC	%	80 - 120
			Total Silver (Ag)	2019/10/01		104	%	80 - 120
			Total Strontium (Sr)	2019/10/01		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/01		101	%	80 - 120
			Total Tin (Sn)	2019/10/01		97	%	80 - 120
			Total Titanium (Ti)	2019/10/01		97	%	80 - 120
			Total Uranium (U)	2019/10/01		103	%	80 - 120
			Total Vanadium (V)	2019/10/01		98	%	80 - 120
			Total Zinc (Zn)	2019/10/01		98	%	80 - 120
			Total Zirconium (Zr)	2019/10/01		103	%	80 - 120
			Total Sulphur (S)	2019/10/01		NC	%	80 - 120
9609329	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/01		102	%	80 - 120
			Total Antimony (Sb)	2019/10/01		102	%	80 - 120
			Total Arsenic (As)	2019/10/01		102	%	80 - 120
			Total Barium (Ba)	2019/10/01		103	%	80 - 120
			Total Beryllium (Be)	2019/10/01		107	%	80 - 120
			Total Bismuth (Bi)	2019/10/01		97	%	80 - 120
			Total Boron (B)	2019/10/01		106	%	80 - 120
			Total Cadmium (Cd)	2019/10/01		104	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2019/10/01		100	%	80 - 120
			Total Cobalt (Co)	2019/10/01		103	%	80 - 120
			Total Copper (Cu)	2019/10/01		101	%	80 - 120
			Total Iron (Fe)	2019/10/01		102	%	80 - 120
			Total Lead (Pb)	2019/10/01		100	%	80 - 120
			Total Lithium (Li)	2019/10/01		104	%	80 - 120
			Total Manganese (Mn)	2019/10/01		98	%	80 - 120
			Total Molybdenum (Mo)	2019/10/01		100	%	80 - 120
			Total Nickel (Ni)	2019/10/01		102	%	80 - 120
			Total Phosphorus (P)	2019/10/01		102	%	80 - 120
			Total Selenium (Se)	2019/10/01		103	%	80 - 120
			Total Silicon (Si)	2019/10/01		103	%	80 - 120
			Total Silver (Ag)	2019/10/01		101	%	80 - 120
			Total Strontium (Sr)	2019/10/01		98	%	80 - 120
			Total Thallium (Tl)	2019/10/01		97	%	80 - 120
			Total Tin (Sn)	2019/10/01		97	%	80 - 120
			Total Titanium (Ti)	2019/10/01		104	%	80 - 120
			Total Uranium (U)	2019/10/01		99	%	80 - 120
			Total Vanadium (V)	2019/10/01		98	%	80 - 120
			Total Zinc (Zn)	2019/10/01		104	%	80 - 120
			Total Zirconium (Zr)	2019/10/01		100	%	80 - 120
			Total Sulphur (S)	2019/10/01		101	%	80 - 120
9609329	AA1	Method Blank	Total Aluminum (Al)	2019/10/01	<3.0		ug/L	
			Total Antimony (Sb)	2019/10/01	<0.020		ug/L	
			Total Arsenic (As)	2019/10/01	<0.020		ug/L	
			Total Barium (Ba)	2019/10/01	<0.050		ug/L	
			Total Beryllium (Be)	2019/10/01	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/01	<0.010		ug/L	
			Total Boron (B)	2019/10/01	<10		ug/L	
			Total Cadmium (Cd)	2019/10/01	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/01	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/01	<0.010		ug/L	
			Total Copper (Cu)	2019/10/01	<0.10		ug/L	
			Total Iron (Fe)	2019/10/01	<5.0		ug/L	
			Total Lead (Pb)	2019/10/01	<0.020		ug/L	
			Total Lithium (Li)	2019/10/01	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/01	<0.10		ug/L	
			Total Molybdenum (Mo)	2019/10/01	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/01	<0.10		ug/L	
			Total Phosphorus (P)	2019/10/01	<5.0		ug/L	
			Total Selenium (Se)	2019/10/01	<0.040		ug/L	
			Total Silicon (Si)	2019/10/01	<50		ug/L	
			Total Silver (Ag)	2019/10/01	<0.010		ug/L	
			Total Strontium (Sr)	2019/10/01	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/01	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/01	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/01	<2.0		ug/L	
			Total Uranium (U)	2019/10/01	<0.0050		ug/L	
			Total Vanadium (V)	2019/10/01	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/01	<1.0		ug/L	
			Total Zirconium (Zr)	2019/10/01	<0.10		ug/L	
			Total Sulphur (S)	2019/10/01	<600		ug/L	
9609329	AA1	RPD [WO9168-09]	Total Aluminum (Al)	2019/10/01	11		%	20
			Total Antimony (Sb)	2019/10/01	3.1		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Arsenic (As)	2019/10/01	0.59		%	20
			Total Barium (Ba)	2019/10/01	0.43		%	20
			Total Beryllium (Be)	2019/10/01	4.1		%	20
			Total Bismuth (Bi)	2019/10/01	NC		%	20
			Total Boron (B)	2019/10/01	NC		%	20
			Total Cadmium (Cd)	2019/10/01	13		%	20
			Total Chromium (Cr)	2019/10/01	4.8		%	20
			Total Cobalt (Co)	2019/10/01	2.5		%	20
			Total Copper (Cu)	2019/10/01	1.1		%	20
			Total Iron (Fe)	2019/10/01	7.4		%	20
			Total Lead (Pb)	2019/10/01	7.8		%	20
			Total Lithium (Li)	2019/10/01	0.29		%	20
			Total Manganese (Mn)	2019/10/01	2.9		%	20
			Total Molybdenum (Mo)	2019/10/01	1.9		%	20
			Total Nickel (Ni)	2019/10/01	0.93		%	20
			Total Phosphorus (P)	2019/10/01	2.0		%	20
			Total Selenium (Se)	2019/10/01	1.2		%	20
			Total Silicon (Si)	2019/10/01	3.3		%	20
			Total Silver (Ag)	2019/10/01	NC		%	20
			Total Strontium (Sr)	2019/10/01	0.39		%	20
			Total Thallium (Tl)	2019/10/01	3.4		%	20
			Total Tin (Sn)	2019/10/01	NC		%	20
			Total Titanium (Ti)	2019/10/01	4.0		%	20
			Total Uranium (U)	2019/10/01	0.86		%	20
			Total Vanadium (V)	2019/10/01	3.8		%	20
			Total Zinc (Zn)	2019/10/01	2.1		%	20
			Total Zirconium (Zr)	2019/10/01	15		%	20
			Total Sulphur (S)	2019/10/01	0.96		%	20
9609472	CGP	Matrix Spike [WO9164-02]	Alkalinity (Total as CaCO3)	2019/10/01		103	%	80 - 120
9609472	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2019/10/01		95	%	80 - 120
9609472	CGP	Method Blank	Alkalinity (Total as CaCO3)	2019/10/01	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/10/01	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/10/01	<0.50		mg/L	
			Carbonate (CO3)	2019/10/01	<0.50		mg/L	
			Hydroxide (OH)	2019/10/01	<0.50		mg/L	
9609472	CGP	RPD [WO9164-02]	Alkalinity (Total as CaCO3)	2019/10/01	1.5		%	20
			Alkalinity (PP as CaCO3)	2019/10/01	NC		%	20
			Bicarbonate (HCO3)	2019/10/01	1.5		%	20
			Carbonate (CO3)	2019/10/01	NC		%	20
			Hydroxide (OH)	2019/10/01	NC		%	20
9609474	CGP	Spiked Blank	Conductivity	2019/10/01		98	%	80 - 120
9609474	CGP	Method Blank	Conductivity	2019/10/01	<1.0		uS/cm	
9609474	CGP	RPD [WO9164-02]	Conductivity	2019/10/01	0.33		%	20
9609476	CGP	Spiked Blank	pH	2019/10/01		101	%	97 - 103
9609476	CGP	RPD [WO9164-02]	pH	2019/10/01	0		%	N/A
9609569	BB3	Matrix Spike	Dissolved Chloride (Cl)	2019/09/30		NC	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		92	%	80 - 120
9609569	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/09/30		97	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		93	%	80 - 120
9609569	BB3	Method Blank	Dissolved Chloride (Cl)	2019/09/30	<1.0		mg/L	
			Dissolved Sulphate (SO4)	2019/09/30	<1.0		mg/L	
9609569	BB3	RPD	Dissolved Sulphate (SO4)	2019/09/30	8.3		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9610275	BB3	Matrix Spike [WO9155-02]	Dissolved Chloride (Cl)	2019/09/30		95	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		NC	%	80 - 120
9610275	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/09/30		98	%	80 - 120
			Dissolved Sulphate (SO4)	2019/09/30		94	%	80 - 120
9610275	BB3	Method Blank	Dissolved Chloride (Cl)	2019/09/30	<1.0		mg/L	
			Dissolved Sulphate (SO4)	2019/09/30	<1.0		mg/L	
9610275	BB3	RPD [WO9155-02]	Dissolved Chloride (Cl)	2019/09/30	NC		%	20
			Dissolved Sulphate (SO4)	2019/09/30	0.48		%	20
9610472	AA1	Matrix Spike	Total Aluminum (Al)	2019/10/02		103	%	80 - 120
			Total Antimony (Sb)	2019/10/02		102	%	80 - 120
			Total Arsenic (As)	2019/10/02		108	%	80 - 120
			Total Barium (Ba)	2019/10/02		NC	%	80 - 120
			Total Beryllium (Be)	2019/10/02		103	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		100	%	80 - 120
			Total Boron (B)	2019/10/02		103	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		103	%	80 - 120
			Total Chromium (Cr)	2019/10/02		99	%	80 - 120
			Total Cobalt (Co)	2019/10/02		98	%	80 - 120
			Total Copper (Cu)	2019/10/02		92	%	80 - 120
			Total Iron (Fe)	2019/10/02		104	%	80 - 120
			Total Lead (Pb)	2019/10/02		105	%	80 - 120
			Total Lithium (Li)	2019/10/02		107	%	80 - 120
			Total Manganese (Mn)	2019/10/02		98	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		NC	%	80 - 120
			Total Nickel (Ni)	2019/10/02		97	%	80 - 120
			Total Phosphorus (P)	2019/10/02		107	%	80 - 120
			Total Selenium (Se)	2019/10/02		NC	%	80 - 120
			Total Silicon (Si)	2019/10/02		114	%	80 - 120
			Total Silver (Ag)	2019/10/02		103	%	80 - 120
			Total Strontium (Sr)	2019/10/02		NC	%	80 - 120
			Total Thallium (Tl)	2019/10/02		103	%	80 - 120
			Total Tin (Sn)	2019/10/02		96	%	80 - 120
			Total Titanium (Ti)	2019/10/02		107	%	80 - 120
			Total Uranium (U)	2019/10/02		110	%	80 - 120
			Total Vanadium (V)	2019/10/02		101	%	80 - 120
			Total Zinc (Zn)	2019/10/02		99	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		113	%	80 - 120
9610472	AA1	Spiked Blank	Total Aluminum (Al)	2019/10/02		102	%	80 - 120
			Total Antimony (Sb)	2019/10/02		99	%	80 - 120
			Total Arsenic (As)	2019/10/02		102	%	80 - 120
			Total Barium (Ba)	2019/10/02		99	%	80 - 120
			Total Beryllium (Be)	2019/10/02		104	%	80 - 120
			Total Bismuth (Bi)	2019/10/02		99	%	80 - 120
			Total Boron (B)	2019/10/02		99	%	80 - 120
			Total Cadmium (Cd)	2019/10/02		104	%	80 - 120
			Total Chromium (Cr)	2019/10/02		100	%	80 - 120
			Total Cobalt (Co)	2019/10/02		102	%	80 - 120
			Total Copper (Cu)	2019/10/02		100	%	80 - 120
			Total Iron (Fe)	2019/10/02		101	%	80 - 120
			Total Lead (Pb)	2019/10/02		101	%	80 - 120
			Total Lithium (Li)	2019/10/02		103	%	80 - 120
			Total Manganese (Mn)	2019/10/02		100	%	80 - 120
			Total Molybdenum (Mo)	2019/10/02		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Nickel (Ni)	2019/10/02		104	%	80 - 120
			Total Phosphorus (P)	2019/10/02		103	%	80 - 120
			Total Selenium (Se)	2019/10/02		101	%	80 - 120
			Total Silicon (Si)	2019/10/02		102	%	80 - 120
			Total Silver (Ag)	2019/10/02		100	%	80 - 120
			Total Strontium (Sr)	2019/10/02		98	%	80 - 120
			Total Thallium (Tl)	2019/10/02		98	%	80 - 120
			Total Tin (Sn)	2019/10/02		93	%	80 - 120
			Total Titanium (Ti)	2019/10/02		104	%	80 - 120
			Total Uranium (U)	2019/10/02		102	%	80 - 120
			Total Vanadium (V)	2019/10/02		100	%	80 - 120
			Total Zinc (Zn)	2019/10/02		112	%	80 - 120
			Total Zirconium (Zr)	2019/10/02		100	%	80 - 120
9610472	AA1	Method Blank	Total Aluminum (Al)	2019/10/02	<0.50		ug/L	
			Total Antimony (Sb)	2019/10/02	<0.020		ug/L	
			Total Arsenic (As)	2019/10/02	<0.020		ug/L	
			Total Barium (Ba)	2019/10/02	<0.020		ug/L	
			Total Beryllium (Be)	2019/10/02	<0.010		ug/L	
			Total Bismuth (Bi)	2019/10/02	<0.0050		ug/L	
			Total Boron (B)	2019/10/02	<10		ug/L	
			Total Cadmium (Cd)	2019/10/02	<0.0050		ug/L	
			Total Chromium (Cr)	2019/10/02	<0.10		ug/L	
			Total Cobalt (Co)	2019/10/02	<0.0050		ug/L	
			Total Copper (Cu)	2019/10/02	<0.050		ug/L	
			Total Iron (Fe)	2019/10/02	<1.0		ug/L	
			Total Lead (Pb)	2019/10/02	<0.0050		ug/L	
			Total Lithium (Li)	2019/10/02	<0.50		ug/L	
			Total Manganese (Mn)	2019/10/02	<0.050		ug/L	
			Total Molybdenum (Mo)	2019/10/02	<0.050		ug/L	
			Total Nickel (Ni)	2019/10/02	<0.020		ug/L	
			Total Phosphorus (P)	2019/10/02	<2.0		ug/L	
			Total Selenium (Se)	2019/10/02	<0.040		ug/L	
			Total Silicon (Si)	2019/10/02	<50		ug/L	
			Total Silver (Ag)	2019/10/02	<0.0050		ug/L	
			Total Strontium (Sr)	2019/10/02	<0.050		ug/L	
			Total Thallium (Tl)	2019/10/02	<0.0020		ug/L	
			Total Tin (Sn)	2019/10/02	<0.20		ug/L	
			Total Titanium (Ti)	2019/10/02	<0.50		ug/L	
			Total Uranium (U)	2019/10/02	<0.0020		ug/L	
			Total Vanadium (V)	2019/10/02	<0.20		ug/L	
			Total Zinc (Zn)	2019/10/02	<0.10		ug/L	
			Total Zirconium (Zr)	2019/10/02	<0.10		ug/L	
9610472	AA1	RPD [WO9165-09]	Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
9610472	AA1	RPD	Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	11		%	20
			Total Antimony (Sb)	2019/10/02	2.4		%	20
			Total Arsenic (As)	2019/10/02	0.58		%	20
			Total Barium (Ba)	2019/10/02	2.4		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	1.9		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2019/10/02	2.0		%	20
			Total Cobalt (Co)	2019/10/02	1.4		%	20
			Total Copper (Cu)	2019/10/02	2.0		%	20
			Total Iron (Fe)	2019/10/02	2.7		%	20
			Total Lead (Pb)	2019/10/02	6.1		%	20
			Total Lithium (Li)	2019/10/02	1.3		%	20
			Total Manganese (Mn)	2019/10/02	2.4		%	20
			Total Molybdenum (Mo)	2019/10/02	0.36		%	20
			Total Nickel (Ni)	2019/10/02	2.8		%	20
			Total Phosphorus (P)	2019/10/02	4.7		%	20
			Total Selenium (Se)	2019/10/02	0.42		%	20
			Total Silicon (Si)	2019/10/02	1.4		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	0.027		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	1.6		%	20
			Total Vanadium (V)	2019/10/02	2.8		%	20
			Total Zinc (Zn)	2019/10/02	2.0		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
			Total Aluminum (Al)	2019/10/02	NC		%	20
			Total Antimony (Sb)	2019/10/02	NC		%	20
			Total Arsenic (As)	2019/10/02	NC		%	20
			Total Barium (Ba)	2019/10/02	NC		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2019/10/02	NC		%	20
			Total Bismuth (Bi)	2019/10/02	NC		%	20
			Total Boron (B)	2019/10/02	NC		%	20
			Total Cadmium (Cd)	2019/10/02	NC		%	20
			Total Chromium (Cr)	2019/10/02	NC		%	20
			Total Cobalt (Co)	2019/10/02	NC		%	20
			Total Copper (Cu)	2019/10/02	NC		%	20
			Total Iron (Fe)	2019/10/02	NC		%	20
			Total Lead (Pb)	2019/10/02	NC		%	20
			Total Lithium (Li)	2019/10/02	NC		%	20
			Total Manganese (Mn)	2019/10/02	NC		%	20
			Total Molybdenum (Mo)	2019/10/02	NC		%	20
			Total Nickel (Ni)	2019/10/02	NC		%	20
			Total Phosphorus (P)	2019/10/02	NC		%	20
			Total Selenium (Se)	2019/10/02	NC		%	20
			Total Silicon (Si)	2019/10/02	NC		%	20
			Total Silver (Ag)	2019/10/02	NC		%	20
			Total Strontium (Sr)	2019/10/02	NC		%	20
			Total Thallium (Tl)	2019/10/02	NC		%	20
			Total Tin (Sn)	2019/10/02	NC		%	20
			Total Titanium (Ti)	2019/10/02	NC		%	20
			Total Uranium (U)	2019/10/02	NC		%	20
			Total Vanadium (V)	2019/10/02	NC		%	20
			Total Zinc (Zn)	2019/10/02	NC		%	20
			Total Zirconium (Zr)	2019/10/02	NC		%	20
9612234	KGH	Matrix Spike	Dissolved Organic Carbon (C)	2019/10/03		107	%	80 - 120
9612234	KGH	Spiked Blank	Dissolved Organic Carbon (C)	2019/10/03		106	%	80 - 120
9612234	KGH	Method Blank	Dissolved Organic Carbon (C)	2019/10/03	<0.50		mg/L	
9612234	KGH	RPD	Dissolved Organic Carbon (C)	2019/10/03	2.8		%	20
9612868	JLD	Matrix Spike [WO9169-04]	Total Total Kjeldahl Nitrogen	2019/10/03		93	%	80 - 120
9612868	JLD	QC Standard	Total Total Kjeldahl Nitrogen	2019/10/03		97	%	80 - 120
9612868	JLD	Spiked Blank	Total Total Kjeldahl Nitrogen	2019/10/03		94	%	80 - 120
9612868	JLD	Method Blank	Total Total Kjeldahl Nitrogen	2019/10/03	<0.050		mg/L	
9612872	JLD	Matrix Spike [WO9164-04]	Total Total Kjeldahl Nitrogen	2019/10/04		44 (1)	%	80 - 120
9612872	JLD	QC Standard	Total Total Kjeldahl Nitrogen	2019/10/03		92	%	80 - 120
9612872	JLD	Spiked Blank	Total Total Kjeldahl Nitrogen	2019/10/03		93	%	80 - 120
9612872	JLD	Method Blank	Total Total Kjeldahl Nitrogen	2019/10/03	<0.050		mg/L	
9612872	JLD	RPD [WO9166-04]	Total Total Kjeldahl Nitrogen	2019/10/04	7.5		%	20
9613066	KGH	Matrix Spike [WO9159-05]	Dissolved Organic Carbon (C)	2019/10/03		98	%	80 - 120
9613066	KGH	Spiked Blank	Dissolved Organic Carbon (C)	2019/10/03		103	%	80 - 120
9613066	KGH	Method Blank	Dissolved Organic Carbon (C)	2019/10/03	<0.50		mg/L	
9613066	KGH	RPD [WO9159-05]	Dissolved Organic Carbon (C)	2019/10/03	12		%	20
9613067	FM0	Matrix Spike [WO9167-04]	Total Ammonia (N)	2019/10/03		100	%	80 - 120
9613067	FM0	Spiked Blank	Total Ammonia (N)	2019/10/03		110	%	80 - 120
9613067	FM0	Method Blank	Total Ammonia (N)	2019/10/03	<0.0050		mg/L	
9613067	FM0	RPD [WO9167-04]	Total Ammonia (N)	2019/10/03	4.6		%	20
9613104	MB5	Matrix Spike	Total Phosphorus (P)	2019/10/04		98	%	80 - 120
9613104	MB5	QC Standard	Total Phosphorus (P)	2019/10/04		84	%	80 - 120
9613104	MB5	Spiked Blank	Total Phosphorus (P)	2019/10/04		86	%	80 - 120
9613104	MB5	Method Blank	Total Phosphorus (P)	2019/10/04	<0.0030		mg/L	



BUREAU
VERITAS

BV Labs Job #: B982249
Report Date: 2019/10/11

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9613104	MB5	RPD	Total Phosphorus (P)	2019/10/04	7.4		%	20
9615091	FM0	Matrix Spike	Total Ammonia (N)	2019/10/05		92	%	80 - 120
9615091	FM0	Spiked Blank	Total Ammonia (N)	2019/10/05		99	%	80 - 120
9615091	FM0	Method Blank	Total Ammonia (N)	2019/10/05	<0.0050		mg/L	
9615091	FM0	RPD	Total Ammonia (N)	2019/10/05	5.7		%	20
9623243	JLD	Matrix Spike	Total Total Kjeldahl Nitrogen	2019/10/11		NC	%	80 - 120
9623243	JLD	QC Standard	Total Total Kjeldahl Nitrogen	2019/10/11		93	%	80 - 120
9623243	JLD	Spiked Blank	Total Total Kjeldahl Nitrogen	2019/10/11		102	%	80 - 120
9623243	JLD	Method Blank	Total Total Kjeldahl Nitrogen	2019/10/11	<0.050		mg/L	
9623243	JLD	RPD	Total Total Kjeldahl Nitrogen	2019/10/11	0.079		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Your Project #: BREWERY CREEK - SURFACE WATER
Your C.O.C. #: 597336-01-01

Attention: Jillian Chown

Golden Predator Exploration
Suite 250-200 Burrard St
Vancouver, BC
CANADA V6C 3L6

Report Date: 2019/11/14
Report #: R2810622
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B995758

Received: 2019/11/05, 13:00

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	10	N/A	2019/11/07	BBY6SOP-00026	SM 22 2320 B m
Low level chloride/sulphate by AC	9	N/A	2019/11/07	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Low level chloride/sulphate by AC	1	N/A	2019/11/08	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Cyanide SAD (strong acid dissociable) (1)	10	N/A	2019/11/13	CAL SOP-00270	SM 23 4500-CN m
Cyanide WAD (weak acid dissociable) (1)	10	N/A	2019/11/13	CAL SOP-00270	SM 23 4500-CN m
Conductance - Low Level	10	N/A	2019/11/07	BBY6SOP-00026	SM 22 2510 B m
Hardness Total (calculated as CaCO3) (2)	9	N/A	2019/11/08	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	1	N/A	2019/11/13	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2019/11/08	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	10	2019/11/07	2019/11/07	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	10	2019/11/07	2019/11/08	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	10	N/A	2019/11/08	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	9	N/A	2019/11/07	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved)	1	N/A	2019/11/08	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2019/11/12	2019/11/13	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	9	N/A	2019/11/08	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2019/11/13	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	9	N/A	2019/11/08	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved) (1)	10	N/A	2019/11/14	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	10	N/A	2019/11/07	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	10	N/A	2019/11/07	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	10	N/A	2019/11/07	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	10	N/A	2019/11/06	BBY7 WI-00004	SM 23 3030B m
pH @25°C (3)	10	N/A	2019/11/07	BBY6SOP-00026	SM 22 4500-H+ B m
Total Dissolved Solids - Low Level (1)	10	2019/11/08	2019/11/08	AB SOP-00065	SM 23 2540 C m
Total Suspended Solids	10	2019/11/07	2019/11/08	BBY6SOP-00034	SM 23 2540 D m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) This test was performed by BV Labs Calgary Environmental

(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).



Your Project #: BREWERY CREEK - SURFACE WATER
Your C.O.C. #: 597336-01-01

Attention: Jillian Chown

Golden Predator Exploration
Suite 250-200 Burrard St
Vancouver, BC
CANADA V6C 3L6

Report Date: 2019/11/14
Report #: R2810622
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B995758

Received: 2019/11/05, 13:00

(3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

Encryption Key

Diana Cruz
Project Manager
14 Nov 2019 16:48:42

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bvlabs.com

Phone# (604) 734 7276

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4566 BC 04								
Sampling Date	2019/10/28 10:30							
Matrix	WATER							
Sample #	BC 04							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662166
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	381	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	393	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	0.121	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	178	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	217	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	7.89	N/A	pH	+/- 0.114	N/A	2019/11/07	CGP	9662101
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Dissolved Sulphate (SO4)	190	0.50	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Nutrients								
Total Ammonia (N)	0.039	0.0050	mg/L	+/- 0.0051	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	0.121	0.020	mg/L	+/- <RDL	N/A	2019/11/07	MO5	9662165
Physical Properties								
Conductivity	739	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	477(2)	1.1	mg/L	+/- 16.5	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	4.8	4.0	mg/L	+/- <RDL	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	5.09	0.50	ug/L	+/- 11.3	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	2.45	0.020	ug/L	+/- 0.231	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	4.40	0.020	ug/L	+/- 0.463	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	62.4	0.020	ug/L	+/- 5.45	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
(2) Detection limits raised due to insufficient sample volume.
(3) Matrix spike exceeds acceptance limits due to probable matrix interference.
(4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
(5) Holding time exceeded as a result of delayed analytical confirmation.
Detection limits raised due to dilution to bring analyte within the calibrated range.
(6) Detection limits raised due to dilution to bring analyte within the calibrated range.
(7) Holding time exceeded as a result of delayed analytical confirmation.
Reanalysis confirms data outside of historical pattern
(8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4566 BC 04								
Sampling Date	2019/10/28 10:30							
Matrix	WATER							
Sample #	BC 04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.0737	0.0050	ug/L	+/- 0.0120	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	0.362	0.0050	ug/L	+/- 0.0414	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	0.277	0.050	ug/L	+/- 0.121	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	221	1.0	ug/L	+/- 21.7	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	9.24	0.50	ug/L	+/- 0.78	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	90.8	0.050	ug/L	+/- 8.86	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	3.13	0.050	ug/L	+/- 0.396	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	3.21	0.020	ug/L	+/- 0.806	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	5.9	2.0	ug/L	+/- 5.6	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	3.15	0.040	ug/L	+/- 0.501	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	3400	50	ug/L	+/- 504	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	597	0.050	ug/L	+/- 44.4	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.0082	0.0020	ug/L	+/- 0.0032	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	4.21	0.0020	ug/L	+/- 0.537	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	0.43	0.20	ug/L	+/- 0.40	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	6.89	0.10	ug/L	+/- 2.27	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	90.8	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	37.5	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	1.37	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	2.34	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	70.4	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	21.2	0.50	ug/L	+/- 2.12	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	2.59	0.020	ug/L	+/- 0.244	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	5.19	0.020	ug/L	+/- 0.544	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	65.2	0.020	ug/L	+/- 5.69	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4566 BC 04								
Sampling Date	2019/10/28 10:30							
Matrix	WATER							
Sample #	BC 04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.0981	0.0050	ug/L	+/- 0.0133	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	0.12	0.10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	0.388	0.0050	ug/L	+/- 0.0441	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.379	0.050	ug/L	+/- 0.054	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	328	1.0	ug/L	+/- 35.1	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.0410	0.0050	ug/L	+/- 0.0077	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	10.3	0.50	ug/L	+/- 1.22	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	95.0	0.050	ug/L	+/- 9.27	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	3.23	0.050	ug/L	+/- 0.383	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	3.31	0.020	ug/L	+/- 0.296	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	13.1	2.0	ug/L	+/- 6.5	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	3.33	0.040	ug/L	+/- 0.445	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	3600	50	ug/L	+/- 534	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	619	0.050	ug/L	+/- 46.0	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.0090	0.0020	ug/L	+/- 0.0032	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	0.60	0.50	ug/L	+/- 0.87	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	4.29	0.0020	ug/L	+/- 0.546	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	0.51	0.20	ug/L	+/- 0.40	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	8.60	0.10	ug/L	+/- 1.83	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	95.3	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	37.6	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	1.55	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	25.7	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	75.5	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661853



BUREAU VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4566 BC 04 Sampling Date 2019/10/28 10:30 Matrix WATER Sample # BC 04 MERCURY BY COLD VAPOR (WATER) Elements Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4567 BC 17 Sampling Date 2019/10/28 11:35 Matrix WATER Sample # BC 17 RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) Calculated Parameters Filter and HNO3 Preservation Dissolved Hardness (CaCO3) Total Hardness (CaCO3) Nitrate (N) Misc. Inorganics Alkalinity (Total as CaCO3) Alkalinity (PP as CaCO3) Bicarbonate (HCO3) Carbonate (CO3) Hydroxide (OH) Strong Acid Dissoc. Cyanide (CN) Weak Acid Dissoc. Cyanide (CN) pH Anions Dissolved Chloride (Cl) Dissolved Sulphate (SO4) Nutrients Total Ammonia (N) Nitrate plus Nitrite (N) Physical Properties Conductivity Physical Properties Total Dissolved Solids Total Suspended Solids	<0.0050 FIELD 357 367 <0.020 191 <0.50 234 <0.50 <0.50 <0.00050(1) <0.00050(1) 8.10 <0.50 190 0.086 <0.020 684 464(2) 13.2	0.0050 0.50 0.50 0.020 0.50 0.50 0.50 0.50 0.00050 0.00050 N/A 0.50 0.50 0.0050 0.020 1.0 1.2 4.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A +/- 0.117 +/- 16.0 +/- <RDL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	2019/11/07 2019/11/06 2019/11/08 2019/11/08 2019/11/07 2019/11/07 2019/11/07 2019/11/07 2019/11/07 2019/11/13 2019/11/13 2019/11/07 2019/11/07 2019/11/07 2019/11/14 2019/11/07 2019/11/07 2019/11/07 2019/11/08 2019/11/07	MO5 CGP CGP CGP CGP TMU TMU CGP BB3 BB3 FM0 MO5 CGP HE1 SHI	9662171 9659188 9661451 9659190 9662102 9662102 9662102 9662102 9662102 9666674 9666676 9662105 9662582 9662582 9668251 9662168 9662104 9664080 9661882

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4567 BC 17								
Sampling Date	2019/10/28 11:35							
Matrix	WATER							
Sample #	BC 17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	0.64	0.50	ug/L	+/- 3.03	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	22.2	0.020	ug/L	+/- 2.06	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	4.23	0.020	ug/L	+/- 0.445	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	22.1	0.020	ug/L	+/- 1.94	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.0148	0.0050	ug/L	+/- 0.0074	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	0.0081	0.0050	ug/L	+/- 0.0078	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	0.108	0.050	ug/L	+/- 0.118	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	2.4	1.0	ug/L	+/- 1.7	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.0091	0.0050	ug/L	+/- 0.0150	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	7.00	0.50	ug/L	+/- 0.61	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	0.430	0.050	ug/L	+/- 0.102	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	5.03	0.050	ug/L	+/- 0.631	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	0.236	0.020	ug/L	+/- 0.107	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	<2.0	2.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	2.11	0.040	ug/L	+/- 0.338	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	3090	50	ug/L	+/- 459	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	578	0.050	ug/L	+/- 43.0	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.0834	0.0020	ug/L	+/- 0.0099	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	9.56	0.0020	ug/L	+/- 1.22	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	2.28	0.10	ug/L	+/- 1.75	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	85.9	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	34.6	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	1.09	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	1.41	0.050	mg/L	N/A	N/A	2019/11/08		9659189



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4567 BC 17								
Sampling Date	2019/10/28 11:35							
Matrix	WATER							
Sample #	BC 17							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Sulphur (S)	55.8	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	9.09	0.50	ug/L	+/- 0.98	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	23.0	0.020	ug/L	+/- 2.13	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	4.70	0.020	ug/L	+/- 0.493	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	22.1	0.020	ug/L	+/- 1.94	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.0170	0.0050	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	0.0183	0.0050	ug/L	+/- 0.0080	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.152	0.050	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	20.8	1.0	ug/L	+/- 2.3	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.192	0.0050	ug/L	+/- 0.0304	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	7.98	0.50	ug/L	+/- 0.97	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	1.31	0.050	ug/L	+/- 0.166	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	5.15	0.050	ug/L	+/- 0.610	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	0.258	0.020	ug/L	+/- 0.031	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	2.6	2.0	ug/L	+/- 5.4	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	2.15	0.040	ug/L	+/- 0.287	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	3340	50	ug/L	+/- 495	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	601	0.050	ug/L	+/- 44.7	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.0907	0.0020	ug/L	+/- 0.0106	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	9.85	0.0020	ug/L	+/- 1.25	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	2.56	0.10	ug/L	+/- 0.56	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	91.5	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	33.7	0.050	mg/L	N/A	N/A	2019/11/08		9661598



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4567 BC 17 Sampling Date 2019/10/28 11:35 Matrix WATER Sample # BC 17								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Potassium (K)	1.17	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	1.35	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	58.4	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661853
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4568 BC 10 Sampling Date 2019/10/28 12:10 Matrix WATER Sample # BC 10								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	222	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	232	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	0.033	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	146	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	178	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	8.08	N/A	pH	+/- 0.117	N/A	2019/11/07	CGP	9662101
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Dissolved Sulphate (SO4)	92	0.50	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Nutrients								
Total Ammonia (N)	0.30	0.0050	mg/L	+/- 0.040	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	0.033	0.020	mg/L	+/- <RDL	N/A	2019/11/07	MO5	9662168

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4568 BC 10								
Sampling Date	2019/10/28 12:10							
Matrix	WATER							
Sample #	BC 10							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Conductivity	457	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	283	1.0	mg/L	+/- 9.8	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	6.4	4.0	mg/L	+/- <RDL	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	0.71	0.50	ug/L	+/- 3.14	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	93.4	0.020	ug/L	+/- 8.64	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	16.7	0.020	ug/L	+/- 1.72	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	105	0.020	ug/L	+/- 9.12	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.0203	0.0050	ug/L	+/- 0.0076	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	0.24	0.10	ug/L	+/- 0.23	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	0.0518	0.0050	ug/L	+/- 0.0098	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	0.474	0.050	ug/L	+/- 0.126	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	<1.0	1.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.0101	0.0050	ug/L	+/- 0.0150	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	2.74	0.50	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	31.5	0.050	ug/L	+/- 3.09	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	4.06	0.050	ug/L	+/- 0.512	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	0.520	0.020	ug/L	+/- 0.163	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	3.0	2.0	ug/L	+/- 5.5	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	4.01	0.040	ug/L	+/- 0.637	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	2670	50	ug/L	+/- 396	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	443	0.050	ug/L	+/- 33.0	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.0569	0.0020	ug/L	+/- 0.0072	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	7.91	0.0020	ug/L	+/- 1.01	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4568 BC 10								
Sampling Date	2019/10/28 12:10							
Matrix	WATER							
Sample #	BC 10							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Zinc (Zn)	0.63	0.10	ug/L	+/- 1.68	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	52.7	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	21.9	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	1.66	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	0.735	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	28.2	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	7.09	0.50	ug/L	+/- 0.80	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	101	0.020	ug/L	+/- 9.35	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	17.8	0.020	ug/L	+/- 1.84	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	111	0.020	ug/L	+/- 9.65	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.0256	0.0050	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	0.53	0.10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	0.0609	0.0050	ug/L	+/- 0.0105	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.552	0.050	ug/L	+/- 0.070	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	55.3	1.0	ug/L	+/- 6.0	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.0218	0.0050	ug/L	+/- 0.0055	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	3.32	0.50	ug/L	+/- 0.53	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	38.2	0.050	ug/L	+/- 3.74	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	4.22	0.050	ug/L	+/- 0.501	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	0.600	0.020	ug/L	+/- 0.059	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	7.2	2.0	ug/L	+/- 5.7	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	4.43	0.040	ug/L	+/- 0.592	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	2910	50	ug/L	+/- 432	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	461	0.050	ug/L	+/- 34.3	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.0626	0.0020	ug/L	+/- 0.0077	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4568 BC 10 Sampling Date 2019/10/28 12:10 Matrix WATER Sample # BC 10								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Uranium (U)	8.22	0.0020	ug/L	+/- 1.05	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	0.85	0.10	ug/L	+/- 0.22	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	56.0	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	22.3	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	1.82	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	0.761	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	31.3	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020(3)	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4569 BC 51W Sampling Date 2019/10/28 13:30 Matrix WATER Sample # BC 51W								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662166
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	214	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	224	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	<0.020	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	3.99(4)	N/A	pH	+/- 0.0579	N/A	2019/11/07	CGP	9662101

- (1) Holding time exceeded as a result of delayed analytical confirmation.
(2) Detection limits raised due to insufficient sample volume.
(3) Matrix spike exceeds acceptance limits due to probable matrix interference.
(4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
(5) Holding time exceeded as a result of delayed analytical confirmation.
Detection limits raised due to dilution to bring analyte within the calibrated range.
(6) Detection limits raised due to dilution to bring analyte within the calibrated range.
(7) Holding time exceeded as a result of delayed analytical confirmation.
Reanalysis confirms data outside of historical pattern
(8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4569 BC 51W								
Sampling Date	2019/10/28 13:30							
Matrix	WATER							
Sample #	BC 51W							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Chloride (Cl)	0.93	0.50	mg/L	+/- 0.77	N/A	2019/11/07	BB3	9662581
Dissolved Sulphate (SO4)	230	5.0	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Nutrients								
Total Ammonia (N)	0.033	0.0050	mg/L	+/- <RDL	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	N/A	2019/11/07	MO5	9662165
Physical Properties								
Conductivity	537	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	373(2)	1.1	mg/L	+/- 12.9	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	<4.0	4.0	mg/L	N/A	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1870	0.50	ug/L	+/- 3640	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	1.19	0.020	ug/L	+/- 0.115	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	9.97	0.020	ug/L	+/- 1.03	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	26.9	0.020	ug/L	+/- 2.35	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	4.73	0.010	ug/L	+/- 0.683	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	1.63	0.0050	ug/L	+/- 0.211	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	0.48	0.10	ug/L	+/- 0.23	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	23.6	0.0050	ug/L	+/- 2.59	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	75.7	0.050	ug/L	+/- 6.25	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	963	1.0	ug/L	+/- 93.4	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.119	0.0050	ug/L	+/- 0.0169	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	6.97	0.50	ug/L	+/- 0.60	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	1420	0.050	ug/L	+/- 139	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	0.140	0.050	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	79.0	0.020	ug/L	+/- 19.3	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	4.8	2.0	ug/L	+/- 5.6	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	2.26	0.040	ug/L	+/- 0.362	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	7920	50	ug/L	+/- 1170	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	0.0053	0.0050	ug/L	+/- 0.0117	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	339	0.050	ug/L	+/- 25.2	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4569 BC 51W								
Sampling Date	2019/10/28 13:30							
Matrix	WATER							
Sample #	BC 51W							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Thallium (Tl)	0.101	0.0020	ug/L	+/- 0.0117	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	1.04	0.0020	ug/L	+/- 0.134	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	182	0.10	ug/L	+/- 36.0	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	46.0	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	24.0	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	2.45	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	0.752	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	76.3	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	1990	0.50	ug/L	+/- 195	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	1.34	0.020	ug/L	+/- 0.129	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	10.4	0.020	ug/L	+/- 1.07	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	27.3	0.020	ug/L	+/- 2.39	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	5.00	0.010	ug/L	+/- 0.721	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	11	10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	1.78	0.0050	ug/L	+/- 0.240	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	1.84	0.10	ug/L	+/- 0.11	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	23.7	0.0050	ug/L	+/- 2.60	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	74.6	0.050	ug/L	+/- 8.19	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	1030	1.0	ug/L	+/- 110	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.175	0.0050	ug/L	+/- 0.0277	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	7.68	0.50	ug/L	+/- 0.94	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	1470	0.050	ug/L	+/- 143	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	0.061	0.050	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	80.5	0.020	ug/L	+/- 7.15	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	13.1	2.0	ug/L	+/- 6.5	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	2.46	0.040	ug/L	+/- 0.328	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	8790	50	ug/L	+/- 1300	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4569 BC 51W Sampling Date 2019/10/28 13:30 Matrix WATER Sample # BC 51W								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	0.0363	0.0050	ug/L	+/- 0.0137	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	346	0.050	ug/L	+/- 25.7	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.108	0.0020	ug/L	+/- 0.0124	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	1.08	0.0020	ug/L	+/- 0.138	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	196	0.10	ug/L	+/- 41.5	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	48.9	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	24.6	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	2.60	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	1.03	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	81.9	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0026	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661853
Total Mercury (Hg)	0.0040	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4570 BC 15 Sampling Date 2019/10/28 13:55 Matrix WATER Sample # BC 15								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	541	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	562	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	0.038	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	130	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Bicarbonate (HCO3)	159	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4570 BC 15								
Sampling Date	2019/10/28 13:55							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	7.94	N/A	pH	+/- 0.115	N/A	2019/11/07	CGP	9662105
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	BB3	9662582
Dissolved Sulphate (SO4)	350	5.0	mg/L	N/A	N/A	2019/11/07	BB3	9662582
Nutrients								
Total Ammonia (N)	0.034	0.0050	mg/L	+/- <RDL	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	0.038	0.020	mg/L	+/- <RDL	N/A	2019/11/07	MO5	9662168
Physical Properties								
Conductivity	1010	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662104
Physical Properties								
Total Dissolved Solids	747(2)	1.2	mg/L	+/- 25.8	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	<4.0	4.0	mg/L	N/A	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.30	0.50	ug/L	+/- 4.11	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	2.94	0.020	ug/L	+/- 0.276	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	26.8	0.020	ug/L	+/- 2.76	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	26.4	0.020	ug/L	+/- 2.31	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.0276	0.0050	ug/L	+/- 0.0080	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	0.48	0.10	ug/L	+/- 0.23	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	0.0138	0.0050	ug/L	+/- 0.0079	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	0.347	0.050	ug/L	+/- 0.122	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	1.3	1.0	ug/L	+/- 1.7	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.0167	0.0050	ug/L	+/- 0.0150	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	1.10	0.50	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	0.999	0.050	ug/L	+/- 0.141	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	1.07	0.050	ug/L	+/- 0.145	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4570 BC 15								
Sampling Date	2019/10/28 13:55							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Nickel (Ni)	0.378	0.020	ug/L	+/- 0.133	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	4.9	2.0	ug/L	+/- 5.6	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	31.6	0.040	ug/L	+/- 4.98	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	2000	50	ug/L	+/- 297	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	1080	0.050	ug/L	+/- 80.6	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.0391	0.0020	ug/L	+/- 0.0055	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	3.89	0.0020	ug/L	+/- 0.496	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	2.11	0.10	ug/L	+/- 1.74	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	119	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	59.3	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	0.949	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	0.532	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	132	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	6.92	0.50	ug/L	+/- 0.79	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	3.09	0.020	ug/L	+/- 0.290	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	27.7	0.020	ug/L	+/- 2.85	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	27.1	0.020	ug/L	+/- 2.37	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.0300	0.0050	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	0.72	0.10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	0.0229	0.0050	ug/L	+/- 0.0082	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.343	0.050	ug/L	+/- 0.051	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	12.4	1.0	ug/L	+/- 1.5	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.0232	0.0050	ug/L	+/- 0.0056	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	1.46	0.50	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4570 BC 15 Sampling Date 2019/10/28 13:55 Matrix WATER Sample # BC 15								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Manganese (Mn)	1.47	0.050	ug/L	+/- 0.180	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	1.10	0.050	ug/L	+/- 0.131	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	0.414	0.020	ug/L	+/- 0.043	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	3.8	2.0	ug/L	+/- 5.5	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	33.6	0.040	ug/L	+/- 4.49	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	2170	50	ug/L	+/- 322	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	1140	0.050	ug/L	+/- 85.1	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.0408	0.0020	ug/L	+/- 0.0056	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	4.03	0.0020	ug/L	+/- 0.514	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	1.47	0.10	ug/L	+/- 0.34	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	126	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	60.0	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	0.950	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	0.481	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	146	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4571 BC 12 Sampling Date 2019/10/28 14:55 Matrix WATER Sample # BC 12								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	526	0.50	mg/L	N/A	N/A	2019/11/08		9659188



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4571 BC 12								
Sampling Date	2019/10/28 14:55							
Matrix	WATER							
Sample #	BC 12							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Calculated Parameters								
Total Hardness (CaCO3)	568	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	<0.020	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	102	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Bicarbonate (HCO3)	125	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662102
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	7.30	N/A	pH	+/- 0.106	N/A	2019/11/07	CGP	9662105
Anions								
Dissolved Chloride (Cl)	1.1	0.50	mg/L	+/- 0.77	N/A	2019/11/07	BB3	9662582
Dissolved Sulphate (SO4)	470	5.0	mg/L	N/A	N/A	2019/11/07	BB3	9662582
Nutrients								
Total Ammonia (N)	0.014	0.0050	mg/L	+/- <RDL	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	N/A	2019/11/07	MO5	9662168
Physical Properties								
Conductivity	1050	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662104
Physical Properties								
Total Dissolved Solids	797(2)	1.1	mg/L	+/- 27.5	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	4.8	4.0	mg/L	+/- <RDL	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	2.75	0.50	ug/L	+/- 6.80	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	109	0.020	ug/L	+/- 10.0	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	19.9	0.020	ug/L	+/- 2.05	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	14.6	0.020	ug/L	+/- 1.28	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	0.028	0.010	ug/L	+/- 0.010	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	14	10	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.298	0.0050	ug/L	+/- 0.0393	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	5.16	0.10	ug/L	+/- 0.48	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	5.25	0.0050	ug/L	+/- 0.577	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4571 BC 12								
Sampling Date	2019/10/28 14:55							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Copper (Cu)	0.712	0.050	ug/L	+/- 0.135	N/A	2019/11/07	VBA	9661866
Dissolved Iron (Fe)	112	1.0	ug/L	+/- 11.3	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.0146	0.0050	ug/L	+/- 0.0150	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	5.79	0.50	ug/L	+/- 0.51	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	321	0.050	ug/L	+/- 31.3	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	2.41	0.050	ug/L	+/- 0.308	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	25.8	0.020	ug/L	+/- 6.32	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	6.5	2.0	ug/L	+/- 5.7	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	0.714	0.040	ug/L	+/- 0.120	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	3620	50	ug/L	+/- 536	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	891	0.050	ug/L	+/- 66.3	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.0973	0.0020	ug/L	+/- 0.0113	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	1.64	0.0020	ug/L	+/- 0.210	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	33.3	0.10	ug/L	+/- 7.06	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	134	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	46.6	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	3.38	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	1.25	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	134	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	12.3	0.50	ug/L	+/- 1.27	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	94.4	0.020	ug/L	+/- 8.73	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	39.9	0.020	ug/L	+/- 4.11	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	16.3	0.020	ug/L	+/- 1.43	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	0.050	0.010	ug/L	+/- 0.011	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	17	10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.355	0.0050	ug/L	+/- 0.0478	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4571 BC 12								
Sampling Date	2019/10/28 14:55							
Matrix	WATER							
Sample #	BC 12							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Chromium (Cr)	5.63	0.10	ug/L	+/- 0.31	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	6.74	0.0050	ug/L	+/- 0.740	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.890	0.050	ug/L	+/- 0.104	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	494	1.0	ug/L	+/- 52.9	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.0452	0.0050	ug/L	+/- 0.0083	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	7.34	0.50	ug/L	+/- 0.91	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	416	0.050	ug/L	+/- 40.6	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	2.08	0.050	ug/L	+/- 0.247	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	32.7	0.020	ug/L	+/- 2.90	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	10.9	2.0	ug/L	+/- 6.2	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	0.631	0.040	ug/L	+/- 0.085	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	3860	50	ug/L	+/- 572	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	0.0051	0.0050	ug/L	+/- 0.0117	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	931	0.050	ug/L	+/- 69.3	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.109	0.0020	ug/L	+/- 0.0125	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	1.48	0.0020	ug/L	+/- 0.189	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	43.1	0.10	ug/L	+/- 9.13	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	145	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	49.9	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	3.66	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	1.32	0.050	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	159	3.0	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4572 BC 32								
Sampling Date	2019/10/28 15:30							
Matrix	WATER							
Sample #	BC 32							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	272	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	284	0.50	mg/L	N/A	N/A	2019/11/13		9661451
Nitrate (N)	0.302	0.020	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	166	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	203	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	<0.00050(1)	0.00050	mg/L	N/A	N/A	2019/11/13	TMU	9666676
pH	8.01	N/A	pH	+/- 0.116	N/A	2019/11/07	CGP	9662101
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/11/08	BB3	9662581
Dissolved Sulphate (SO4)	130	0.50	mg/L	N/A	N/A	2019/11/08	BB3	9662581
Nutrients								
Total Ammonia (N)	0.043	0.0050	mg/L	+/- 0.0058	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	0.302	0.020	mg/L	+/- 0.047	N/A	2019/11/07	MO5	9662168
Physical Properties								
Conductivity	541	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	343(2)	1.1	mg/L	+/- 11.9	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	17.6	4.0	mg/L	+/- <RDL	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	3.84	0.50	ug/L	+/- 8.89	N/A	2019/11/08	VBA	9661866
Dissolved Antimony (Sb)	13.0	0.020	ug/L	+/- 1.21	N/A	2019/11/08	VBA	9661866
Dissolved Arsenic (As)	4.49	0.020	ug/L	+/- 0.471	N/A	2019/11/08	VBA	9661866
Dissolved Barium (Ba)	63.4	0.020	ug/L	+/- 5.54	N/A	2019/11/08	VBA	9661866
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
(2) Detection limits raised due to insufficient sample volume.
(3) Matrix spike exceeds acceptance limits due to probable matrix interference.
(4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
(5) Holding time exceeded as a result of delayed analytical confirmation.
Detection limits raised due to dilution to bring analyte within the calibrated range.
(6) Detection limits raised due to dilution to bring analyte within the calibrated range.
(7) Holding time exceeded as a result of delayed analytical confirmation.
Reanalysis confirms data outside of historical pattern
(8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4572 BC 32								
Sampling Date	2019/10/28 15:30							
Matrix	WATER							
Sample #	BC 32							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Cadmium (Cd)	0.0689	0.0050	ug/L	+/- 0.0115	N/A	2019/11/08	VBA	9661866
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Cobalt (Co)	0.559	0.0050	ug/L	+/- 0.0627	N/A	2019/11/08	VBA	9661866
Dissolved Copper (Cu)	0.552	0.050	ug/L	+/- 0.128	N/A	2019/11/08	VBA	9661866
Dissolved Iron (Fe)	37.0	1.0	ug/L	+/- 4.2	N/A	2019/11/08	VBA	9661866
Dissolved Lead (Pb)	0.0204	0.0050	ug/L	+/- 0.0150	N/A	2019/11/08	VBA	9661866
Dissolved Lithium (Li)	7.47	0.50	ug/L	+/- 0.64	N/A	2019/11/08	VBA	9661866
Dissolved Manganese (Mn)	46.6	0.050	ug/L	+/- 4.56	N/A	2019/11/08	VBA	9661866
Dissolved Molybdenum (Mo)	3.80	0.050	ug/L	+/- 0.479	N/A	2019/11/08	VBA	9661866
Dissolved Nickel (Ni)	4.50	0.020	ug/L	+/- 1.12	N/A	2019/11/08	VBA	9661866
Dissolved Phosphorus (P)	8.1	2.0	ug/L	+/- 5.8	N/A	2019/11/08	VBA	9661866
Dissolved Selenium (Se)	2.24	0.040	ug/L	+/- 0.358	N/A	2019/11/08	VBA	9661866
Dissolved Silicon (Si)	3310	50	ug/L	+/- 491	N/A	2019/11/08	VBA	9661866
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Strontium (Sr)	346	0.050	ug/L	+/- 25.8	N/A	2019/11/08	VBA	9661866
Dissolved Thallium (Tl)	0.0059	0.0020	ug/L	+/- 0.0031	N/A	2019/11/08	VBA	9661866
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Uranium (U)	2.25	0.0020	ug/L	+/- 0.287	N/A	2019/11/08	VBA	9661866
Dissolved Vanadium (V)	0.26	0.20	ug/L	+/- 0.40	N/A	2019/11/08	VBA	9661866
Dissolved Zinc (Zn)	9.50	0.10	ug/L	+/- 2.68	N/A	2019/11/08	VBA	9661866
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	VBA	9661866
Dissolved Calcium (Ca)	67.9	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	25.0	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	1.92	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	1.51	0.050	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	36.7	3.0	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	106	3.0	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Antimony (Sb)	17.6	0.020	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Arsenic (As)	12.5	0.020	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Barium (Ba)	72.1	0.050	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4572 BC 32								
Sampling Date	2019/10/28 15:30							
Matrix	WATER							
Sample #	BC 32							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Beryllium (Be)	0.011	0.010	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Bismuth (Bi)	<0.010	0.010	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Boron (B)	10	10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Cadmium (Cd)	0.158	0.0050	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Chromium (Cr)	0.24	0.10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Cobalt (Co)	0.885	0.010	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Copper (Cu)	0.77	0.10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Iron (Fe)	777	5.0	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Lead (Pb)	0.152	0.020	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Lithium (Li)	9.17	0.50	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Manganese (Mn)	56.4	0.10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Molybdenum (Mo)	4.03	0.050	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Nickel (Ni)	7.39	0.10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Phosphorus (P)	25.0	5.0	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Selenium (Se)	2.23	0.040	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Silicon (Si)	3980	50	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Silver (Ag)	<0.010	0.010	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Strontium (Sr)	357	0.050	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Thallium (Tl)	0.0197	0.0020	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Titanium (Ti)	3.8	2.0	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Uranium (U)	2.23	0.0050	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Vanadium (V)	1.44	0.20	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Zinc (Zn)	27.7	1.0	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825
Total Calcium (Ca)	71.6	0.25	mg/L	N/A	N/A	2019/11/13		9661598
Total Magnesium (Mg)	25.5	0.25	mg/L	N/A	N/A	2019/11/13		9661598
Total Potassium (K)	1.90	0.25	mg/L	N/A	N/A	2019/11/13		9661598
Total Sodium (Na)	1.42	0.25	mg/L	N/A	N/A	2019/11/13		9661598
Total Sulphur (S)	39.3	3.0	mg/L	N/A	N/A	2019/11/13		9661598
Total Sulphur (S)	39300	600	ug/L	N/A	2019/11/12	2019/11/13	AA1	9667825



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4572 BC 32 Sampling Date 2019/10/28 15:30 Matrix WATER Sample # BC 32 MERCURY BY COLD VAPOR (WATER) Elements Dissolved Mercury (Hg) Total Mercury (Hg)	0.0024 0.0020	0.0020 0.0020	ug/L ug/L	N/A N/A	2019/11/07 2019/11/07	2019/11/07 2019/11/08	CJY CJY	9661909 9662508
WW4573 BC 28A Sampling Date 2019/10/29 16:53 Matrix WATER Sample # BC 28A RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) Calculated Parameters Filter and HNO3 Preservation Dissolved Hardness (CaCO3) Total Hardness (CaCO3) Nitrate (N) Misc. Inorganics Alkalinity (Total as CaCO3) Alkalinity (PP as CaCO3) Bicarbonate (HCO3) Carbonate (CO3) Hydroxide (OH) Strong Acid Dissoc. Cyanide (CN) Weak Acid Dissoc. Cyanide (CN) pH Anions Dissolved Chloride (Cl) Dissolved Sulphate (SO4) Nutrients Total Ammonia (N) Nitrate plus Nitrite (N) Physical Properties Conductivity Physical Properties Total Dissolved Solids Total Suspended Solids	0.0063 FIELD 1360 1370 434 123 <0.50 150 <0.50 <0.50 0.497(5) 0.0386(1) 7.91 29 1000 0.039 434(6) 4470 3630(2) <4.0	0.0050 0.50 0.50 20 0.50 0.50 0.0025 0.00050 N/A 0.50 5.0 0.0050 20 1.0 1.0 4.0	mg/L N/A mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	+/- <RDL N/A N/A N/A N/A N/A N/A N/A N/A +/- 0.0460 +/- 0.00734 +/- 0.115 +/- 1.4 N/A +/- 0.0052 +/- 67 N/A N/A +/- 125 N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	2019/11/07 2019/11/06 2019/11/08 2019/11/08 2019/11/07 2019/11/07 2019/11/07 2019/11/07 2019/11/07 2019/11/13 2019/11/13 2019/11/07 2019/11/07 2019/11/07 2019/11/14 2019/11/07 2019/11/07 2019/11/07 2019/11/08 2019/11/08	MO5 CGP CGP CGP CGP CGP TMU TMU CGP BB3 BB3 FM0 MO5 CGP HE1 SHI	9662171 ONSITE 9659188 9661451 9659190 9662099 9662099 9662099 9662099 9662099 9666674 9666676 9662101 9662581 9662581 9668401 9662168 9662100 9664080 9661882

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4573 BC 28A								
Sampling Date	2019/10/29 16:53							
Matrix	WATER							
Sample #	BC 28A							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	22	10	ug/L	+/- 45	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	1970	0.40	ug/L	+/- 182	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	273	0.40	ug/L	+/- 28.0	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	32.9	0.40	ug/L	+/- 2.88	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<200	200	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	0.21	0.10	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	411	0.10	ug/L	+/- 45.0	N/A	2019/11/13	AA1	9669290
Dissolved Copper (Cu)	1.1	1.0	ug/L	+/- <RDL	N/A	2019/11/13	AA1	9669290
Dissolved Iron (Fe)	64	20	ug/L	+/- <RDL	N/A	2019/11/13	AA1	9669290
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	11.4	1.0	ug/L	+/- 1.1	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	9.0	1.0	ug/L	+/- 1.1	N/A	2019/11/13	AA1	9669290
Dissolved Nickel (Ni)	7.27	0.40	ug/L	+/- 1.80	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	50	40	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	175	0.80	ug/L	+/- 27.5	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	4330	1000	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	1760	1.0	ug/L	+/- 131	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.311	0.040	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	28.2	0.040	ug/L	+/- 3.59	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	11.9	2.0	ug/L	+/- 3.1	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	386	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	95.1	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	5.4	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	470	1.0	mg/L	N/A	N/A	2019/11/08		9659189



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4573 BC 28A								
Sampling Date	2019/10/29 16:53							
Matrix	WATER							
Sample #	BC 28A							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Sulphur (S)	319	60	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	13	10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	2110	0.40	ug/L	+/- 195	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	289	0.40	ug/L	+/- 29.6	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	34.7	0.40	ug/L	+/- 3.03	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.20	0.20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<200	200	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	0.23	0.10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	423	0.10	ug/L	+/- 46.4	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	1.3	1.0	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	70	20	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	12.1	1.0	ug/L	+/- 1.2	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	11.5	1.0	ug/L	+/- 1.4	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	7.14	0.40	ug/L	+/- 0.64	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	<40	40	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	206	0.80	ug/L	+/- 27.5	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	4520	1000	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	1950	1.0	ug/L	+/- 145	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.278	0.040	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<4.0	4.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	25.0	0.040	ug/L	+/- 3.18	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<4.0	4.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	10.5	2.0	ug/L	+/- 2.2	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	393	1.0	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	93.6	1.0	mg/L	N/A	N/A	2019/11/08		9661598



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4573 BC 28A Sampling Date 2019/10/29 16:53 Matrix WATER Sample # BC 28A								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Potassium (K)	5.6	1.0	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	466	1.0	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	341	60	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0329	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	0.0347	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4574 BC 28B Sampling Date 2019/10/29 11:30 Matrix WATER Sample # BC 28B								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.412	0.0050	mg/L	+/- 0.0225	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	1100	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	1080	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	278	4.0	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	77.7	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	94.8	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	0.0431(7)	0.00050	mg/L	+/- 0.00564	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	0.0367(7)	0.00050	mg/L	+/- 0.00698	N/A	2019/11/13	TMU	9666676
pH	7.53	N/A	pH	+/- 0.109	N/A	2019/11/07	CGP	9662101
Anions								
Dissolved Chloride (Cl)	22	0.50	mg/L	+/- 1.2	N/A	2019/11/07	BB3	9662581
Dissolved Sulphate (SO4)	900	5.0	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Nutrients								
Total Ammonia (N)	0.22	0.0050	mg/L	+/- 0.029	N/A	2019/11/14	FM0	9668401
Nitrate plus Nitrite (N)	278(6)	4.0	mg/L	+/- 43.0	N/A	2019/11/07	MO5	9662168

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4574 BC 28B								
Sampling Date	2019/10/29 11:30							
Matrix	WATER							
Sample #	BC 28B							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Conductivity	3540	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	2880(2)	1.1	mg/L	+/- 99.5	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	4.0	4.0	mg/L	N/A	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	51	10	ug/L	+/- 102	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	1820	0.40	ug/L	+/- 168	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	162	0.40	ug/L	+/- 16.6	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	33.5	0.40	ug/L	+/- 2.93	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.20	0.20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<200	200	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	432	0.10	ug/L	+/- 47.4	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	2.4	1.0	ug/L	+/- <RDL	N/A	2019/11/13	AA1	9669290
Dissolved Iron (Fe)	<20	20	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	29.8	1.0	ug/L	+/- 2.9	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	17.9	1.0	ug/L	+/- 2.2	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	5.70	0.40	ug/L	+/- 1.41	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	<40	40	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	131	0.80	ug/L	+/- 20.6	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	<1000	1000	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.10	0.10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	1460	1.0	ug/L	+/- 109	N/A	2019/11/07	VBA	9661866
Dissolved Thallium (Tl)	0.213	0.040	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<4.0	4.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	21.2	0.040	ug/L	+/- 2.70	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<4.0	4.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
(2) Detection limits raised due to insufficient sample volume.
(3) Matrix spike exceeds acceptance limits due to probable matrix interference.
(4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
(5) Holding time exceeded as a result of delayed analytical confirmation.
Detection limits raised due to dilution to bring analyte within the calibrated range.
(6) Detection limits raised due to dilution to bring analyte within the calibrated range.
(7) Holding time exceeded as a result of delayed analytical confirmation.
Reanalysis confirms data outside of historical pattern
(8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4574 BC 28B								
Sampling Date	2019/10/29 11:30							
Matrix	WATER							
Sample #	BC 28B							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Zinc (Zn)	11.7(8)	2.0	ug/L	+/- 3.0	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<2.0	2.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	296	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	86.8	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	5.1	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	374	1.0	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	298	60	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	46.1	5.0	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	1890	0.20	ug/L	+/- 175	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	167	0.20	ug/L	+/- 17.1	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	34.9	0.20	ug/L	+/- 3.05	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.10	0.10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.050	0.050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<100	100	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	<0.050	0.050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	<1.0	1.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	394	0.050	ug/L	+/- 43.3	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	1.65	0.50	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	<0.050	0.050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	5.4	5.0	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	35.3	0.50	ug/L	+/- 3.46	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	14.3	0.50	ug/L	+/- 1.69	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	5.31	0.20	ug/L	+/- 0.47	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	<20	20	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	150	0.40	ug/L	+/- 20.0	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	<500	500	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Silver (Ag)	<0.050	0.050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	1590	0.50	ug/L	+/- 118	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.212	0.020	ug/L	+/- 0.023	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<2.0	2.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<5.0	5.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4574 BC 28B Sampling Date 2019/10/29 11:30 Matrix WATER Sample # BC 28B								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Uranium (U)	19.6	0.020	ug/L	+/- 2.50	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<2.0	2.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	3.6	1.0	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<1.0	1.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	298	0.50	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	81.0	0.50	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	4.98	0.50	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	353	0.50	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	315	30	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	0.0036	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	0.0041	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508
WW4575 BC 28 Sampling Date 2019/10/29 12:00 Matrix WATER Sample # BC 28								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	0.181	0.0050	mg/L	+/- 0.0099	N/A	2019/11/07	MO5	9662171
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/11/06		ONSITE
Dissolved Hardness (CaCO3)	452	0.50	mg/L	N/A	N/A	2019/11/08		9659188
Total Hardness (CaCO3)	462	0.50	mg/L	N/A	N/A	2019/11/08		9661451
Nitrate (N)	129	2.0	mg/L	N/A	N/A	2019/11/07		9659190
Misc. Inorganics								
Alkalinity (Total as CaCO3)	32.8	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Alkalinity (PP as CaCO3)	0.54	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Bicarbonate (HCO3)	38.7	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Carbonate (CO3)	0.65	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/11/07	CGP	9662099
Strong Acid Dissoc. Cyanide (CN)	0.00448(1)	0.00050	mg/L	+/- 0.00402	N/A	2019/11/13	TMU	9666674
Weak Acid Dissoc. Cyanide (CN)	0.00226(1)	0.00050	mg/L	+/- 0.00054	N/A	2019/11/13	TMU	9666676
pH	8.38	N/A	pH	+/- 0.122	N/A	2019/11/07	CGP	9662101

- (1) Holding time exceeded as a result of delayed analytical confirmation.
(2) Detection limits raised due to insufficient sample volume.
(3) Matrix spike exceeds acceptance limits due to probable matrix interference.
(4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
(5) Holding time exceeded as a result of delayed analytical confirmation.
Detection limits raised due to dilution to bring analyte within the calibrated range.
(6) Detection limits raised due to dilution to bring analyte within the calibrated range.
(7) Holding time exceeded as a result of delayed analytical confirmation.
Reanalysis confirms data outside of historical pattern
(8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4575 BC 28								
Sampling Date	2019/10/29 12:00							
Matrix	WATER							
Sample #	BC 28							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Chloride (Cl)	14	0.50	mg/L	+/- 0.99	N/A	2019/11/07	BB3	9662581
Dissolved Sulphate (SO4)	460	5.0	mg/L	N/A	N/A	2019/11/07	BB3	9662581
Nutrients								
Total Ammonia (N)	0.33	0.0050	mg/L	+/- 0.044	N/A	2019/11/14	FM0	9668251
Nitrate plus Nitrite (N)	129(6)	2.0	mg/L	+/- 20.0	N/A	2019/11/07	MO5	9662168
Physical Properties								
Conductivity	1890	1.0	uS/cm	N/A	N/A	2019/11/07	CGP	9662100
Physical Properties								
Total Dissolved Solids	1430(2)	1.1	mg/L	+/- 49.2	2019/11/08	2019/11/08	HE1	9664080
Total Suspended Solids	<4.0	4.0	mg/L	N/A	2019/11/07	2019/11/08	SHI	9661882
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	7.7	2.5	ug/L	+/- 16.4	N/A	2019/11/07	VBA	9661866
Dissolved Antimony (Sb)	714	0.10	ug/L	+/- 66.0	N/A	2019/11/07	VBA	9661866
Dissolved Arsenic (As)	14.6	0.10	ug/L	+/- 1.51	N/A	2019/11/07	VBA	9661866
Dissolved Barium (Ba)	67.3	0.10	ug/L	+/- 5.87	N/A	2019/11/07	VBA	9661866
Dissolved Beryllium (Be)	<0.050	0.050	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Bismuth (Bi)	<0.025	0.025	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Boron (B)	<50	50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cadmium (Cd)	<0.025	0.025	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Chromium (Cr)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Cobalt (Co)	38.9	0.025	ug/L	+/- 4.27	N/A	2019/11/07	VBA	9661866
Dissolved Copper (Cu)	0.93	0.25	ug/L	+/- <RDL	N/A	2019/11/13	AA1	9669290
Dissolved Iron (Fe)	<5.0	5.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Lead (Pb)	0.038	0.025	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Lithium (Li)	<2.5	2.5	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Manganese (Mn)	4.06	0.25	ug/L	+/- 0.42	N/A	2019/11/07	VBA	9661866
Dissolved Molybdenum (Mo)	9.60	0.25	ug/L	+/- 1.20	N/A	2019/11/07	VBA	9661866
Dissolved Nickel (Ni)	0.55	0.10	ug/L	+/- 0.17	N/A	2019/11/07	VBA	9661866
Dissolved Phosphorus (P)	<10	10	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Selenium (Se)	65.2	0.20	ug/L	+/- 10.3	N/A	2019/11/07	VBA	9661866
Dissolved Silicon (Si)	636	250	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Silver (Ag)	<0.025	0.025	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Strontium (Sr)	689	0.25	ug/L	+/- 51.3	N/A	2019/11/07	VBA	9661866

- (1) Holding time exceeded as a result of delayed analytical confirmation.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (4) Sample pH value outside pH calibration range 4 to 10, verified using pH 1.68 buffer.
- (5) Holding time exceeded as a result of delayed analytical confirmation.
- Detection limits raised due to dilution to bring analyte within the calibrated range.
- (6) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (7) Holding time exceeded as a result of delayed analytical confirmation.
- Reanalysis confirms data outside of historical pattern
- (8) Dissolved greater than total. Reanalysis yields similar results.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4575 BC 28								
Sampling Date	2019/10/29 12:00							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Thallium (Tl)	0.029	0.010	ug/L	+/- <RDL	N/A	2019/11/07	VBA	9661866
Dissolved Tin (Sn)	<1.0	1.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Titanium (Ti)	<2.5	2.5	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Uranium (U)	7.08	0.010	ug/L	+/- 0.902	N/A	2019/11/07	VBA	9661866
Dissolved Vanadium (V)	<1.0	1.0	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Zinc (Zn)	4.40	0.50	ug/L	+/- 1.95	N/A	2019/11/07	VBA	9661866
Dissolved Zirconium (Zr)	<0.50	0.50	ug/L	N/A	N/A	2019/11/07	VBA	9661866
Dissolved Calcium (Ca)	113	0.25	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Magnesium (Mg)	41.1	0.25	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Potassium (K)	3.45	0.25	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sodium (Na)	214	0.25	mg/L	N/A	N/A	2019/11/08		9659189
Dissolved Sulphur (S)	153	15	mg/L	N/A	N/A	2019/11/08		9659189
Total Metals by ICPMS								
Total Aluminum (Al)	19.5	2.5	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Antimony (Sb)	788	0.10	ug/L	+/- 72.8	N/A	2019/11/08	AA1	9662319
Total Arsenic (As)	15.7	0.10	ug/L	+/- 1.62	N/A	2019/11/08	AA1	9662319
Total Barium (Ba)	71.5	0.10	ug/L	+/- 6.24	N/A	2019/11/08	AA1	9662319
Total Beryllium (Be)	<0.050	0.050	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Bismuth (Bi)	<0.025	0.025	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Boron (B)	<50	50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cadmium (Cd)	<0.025	0.025	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Chromium (Cr)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Cobalt (Co)	38.7	0.025	ug/L	+/- 4.24	N/A	2019/11/08	AA1	9662319
Total Copper (Cu)	0.83	0.25	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Iron (Fe)	25.8	5.0	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Lead (Pb)	0.035	0.025	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Lithium (Li)	<2.5	2.5	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Manganese (Mn)	5.85	0.25	ug/L	+/- 0.60	N/A	2019/11/08	AA1	9662319
Total Molybdenum (Mo)	9.01	0.25	ug/L	+/- 1.07	N/A	2019/11/08	AA1	9662319
Total Nickel (Ni)	0.47	0.10	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Phosphorus (P)	<10	10	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Selenium (Se)	74.9	0.20	ug/L	+/- 10.0	N/A	2019/11/08	AA1	9662319
Total Silicon (Si)	682	250	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
WW4575 BC 28								
Sampling Date	2019/10/29 12:00							
Matrix	WATER							
Sample #	BC 28							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silver (Ag)	<0.025	0.025	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Strontium (Sr)	762	0.25	ug/L	+/- 56.7	N/A	2019/11/08	AA1	9662319
Total Thallium (Tl)	0.026	0.010	ug/L	+/- <RDL	N/A	2019/11/08	AA1	9662319
Total Tin (Sn)	<1.0	1.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Titanium (Ti)	<2.5	2.5	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Uranium (U)	6.99	0.010	ug/L	+/- 0.890	N/A	2019/11/08	AA1	9662319
Total Vanadium (V)	<1.0	1.0	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Zinc (Zn)	3.13	0.50	ug/L	+/- 0.68	N/A	2019/11/08	AA1	9662319
Total Zirconium (Zr)	<0.50	0.50	ug/L	N/A	N/A	2019/11/08	AA1	9662319
Total Calcium (Ca)	117	0.25	mg/L	N/A	N/A	2019/11/08		9661598
Total Magnesium (Mg)	41.3	0.25	mg/L	N/A	N/A	2019/11/08		9661598
Total Potassium (K)	3.49	0.25	mg/L	N/A	N/A	2019/11/08		9661598
Total Sodium (Na)	208	0.25	mg/L	N/A	N/A	2019/11/08		9661598
Total Sulphur (S)	166	15	mg/L	N/A	N/A	2019/11/08		9661598
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/07	CJY	9661909
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/11/07	2019/11/08	CJY	9662508



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.0°C
Package 2	2.0°C
Package 3	1.7°C
Package 4	1.7°C

Sample WW4566 [BC 04] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4567 [BC 17] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4568 [BC 10] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4569 [BC 51W] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4570 [BC 15] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4571 [BC 12] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4572 [BC 32] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample received past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4573 [BC 28A] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

Sample WW4574 [BC 28B] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample WW4575 [BC 28] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Suspended Solids. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

Sample WW4573 [BC 28A] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4573 [BC 28A] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4573 [BC 28A] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4574 [BC 28B] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4574 [BC 28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4574 [BC 28B] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4575 [BC 28] Elements by ICPMS Low Level (total): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4575 [BC 28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4575 [BC 28] Elements by ICPMS Low Level (dissolved): RDL raised due to concentration over linear range, sample dilution required.
Sample WW4573, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample WW4574, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample WW4575, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9661853	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/11/07		73 (1)	%	80 - 120
9661853	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/11/07		89	%	80 - 120
9661853	CJY	Method Blank	Dissolved Mercury (Hg)	2019/11/07	<0.0020		ug/L	
9661853	CJY	RPD	Dissolved Mercury (Hg)	2019/11/07	NC		%	20
9661866	VBA	Matrix Spike [WW4566-07]	Dissolved Aluminum (Al)	2019/11/07		97	%	80 - 120
			Dissolved Antimony (Sb)	2019/11/07		97	%	80 - 120
			Dissolved Arsenic (As)	2019/11/07		100	%	80 - 120
			Dissolved Barium (Ba)	2019/11/07		NC	%	80 - 120
			Dissolved Beryllium (Be)	2019/11/07		94	%	80 - 120
			Dissolved Bismuth (Bi)	2019/11/07		99	%	80 - 120
			Dissolved Boron (B)	2019/11/07		96	%	80 - 120
			Dissolved Cadmium (Cd)	2019/11/07		98	%	80 - 120
			Dissolved Chromium (Cr)	2019/11/07		99	%	80 - 120
			Dissolved Cobalt (Co)	2019/11/07		95	%	80 - 120
			Dissolved Copper (Cu)	2019/11/07		95	%	80 - 120
			Dissolved Iron (Fe)	2019/11/07		99	%	80 - 120
			Dissolved Lead (Pb)	2019/11/07		101	%	80 - 120
			Dissolved Lithium (Li)	2019/11/07		92	%	80 - 120
			Dissolved Manganese (Mn)	2019/11/07		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/11/07		103	%	80 - 120
			Dissolved Nickel (Ni)	2019/11/07		95	%	80 - 120
			Dissolved Phosphorus (P)	2019/11/07		104	%	80 - 120
			Dissolved Selenium (Se)	2019/11/07		101	%	80 - 120
			Dissolved Silicon (Si)	2019/11/07		100	%	80 - 120
			Dissolved Silver (Ag)	2019/11/07		98	%	80 - 120
			Dissolved Strontium (Sr)	2019/11/07		NC	%	80 - 120
			Dissolved Thallium (Tl)	2019/11/07		103	%	80 - 120
			Dissolved Tin (Sn)	2019/11/07		100	%	80 - 120
			Dissolved Titanium (Ti)	2019/11/07		101	%	80 - 120
			Dissolved Uranium (U)	2019/11/07		106	%	80 - 120
			Dissolved Vanadium (V)	2019/11/07		101	%	80 - 120
			Dissolved Zinc (Zn)	2019/11/07		94	%	80 - 120
			Dissolved Zirconium (Zr)	2019/11/07		102	%	80 - 120
9661866	VBA	Spiked Blank	Dissolved Aluminum (Al)	2019/11/07		102	%	80 - 120
			Dissolved Antimony (Sb)	2019/11/07		100	%	80 - 120
			Dissolved Arsenic (As)	2019/11/07		101	%	80 - 120
			Dissolved Barium (Ba)	2019/11/07		103	%	80 - 120
			Dissolved Beryllium (Be)	2019/11/07		98	%	80 - 120
			Dissolved Bismuth (Bi)	2019/11/07		104	%	80 - 120
			Dissolved Boron (B)	2019/11/07		99	%	80 - 120
			Dissolved Cadmium (Cd)	2019/11/07		101	%	80 - 120
			Dissolved Chromium (Cr)	2019/11/07		101	%	80 - 120
			Dissolved Cobalt (Co)	2019/11/07		99	%	80 - 120
			Dissolved Copper (Cu)	2019/11/07		102	%	80 - 120
			Dissolved Iron (Fe)	2019/11/07		105	%	80 - 120
			Dissolved Lead (Pb)	2019/11/07		104	%	80 - 120
			Dissolved Lithium (Li)	2019/11/07		98	%	80 - 120
			Dissolved Manganese (Mn)	2019/11/07		101	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/11/07		102	%	80 - 120
			Dissolved Nickel (Ni)	2019/11/07		101	%	80 - 120
			Dissolved Phosphorus (P)	2019/11/07		100	%	80 - 120
			Dissolved Selenium (Se)	2019/11/07		101	%	80 - 120
			Dissolved Silicon (Si)	2019/11/07		104	%	80 - 120
			Dissolved Silver (Ag)	2019/11/07		101	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Strontium (Sr)	2019/11/07		101	%	80 - 120
			Dissolved Thallium (Tl)	2019/11/07		104	%	80 - 120
			Dissolved Tin (Sn)	2019/11/07		100	%	80 - 120
			Dissolved Titanium (Ti)	2019/11/07		100	%	80 - 120
			Dissolved Uranium (U)	2019/11/07		106	%	80 - 120
			Dissolved Vanadium (V)	2019/11/07		101	%	80 - 120
			Dissolved Zinc (Zn)	2019/11/07		101	%	80 - 120
			Dissolved Zirconium (Zr)	2019/11/07		102	%	80 - 120
9661866	VBA	Method Blank	Dissolved Aluminum (Al)	2019/11/07	<0.50		ug/L	
			Dissolved Antimony (Sb)	2019/11/07	<0.020		ug/L	
			Dissolved Arsenic (As)	2019/11/07	<0.020		ug/L	
			Dissolved Barium (Ba)	2019/11/07	<0.020		ug/L	
			Dissolved Beryllium (Be)	2019/11/07	<0.010		ug/L	
			Dissolved Bismuth (Bi)	2019/11/07	<0.0050		ug/L	
			Dissolved Boron (B)	2019/11/07	<10		ug/L	
			Dissolved Cadmium (Cd)	2019/11/07	<0.0050		ug/L	
			Dissolved Chromium (Cr)	2019/11/07	<0.10		ug/L	
			Dissolved Cobalt (Co)	2019/11/07	<0.0050		ug/L	
			Dissolved Copper (Cu)	2019/11/07	<0.050		ug/L	
			Dissolved Iron (Fe)	2019/11/07	<1.0		ug/L	
			Dissolved Lead (Pb)	2019/11/07	<0.0050		ug/L	
			Dissolved Lithium (Li)	2019/11/07	<0.50		ug/L	
			Dissolved Manganese (Mn)	2019/11/07	<0.050		ug/L	
			Dissolved Molybdenum (Mo)	2019/11/07	<0.050		ug/L	
			Dissolved Nickel (Ni)	2019/11/07	<0.020		ug/L	
			Dissolved Phosphorus (P)	2019/11/07	<2.0		ug/L	
			Dissolved Selenium (Se)	2019/11/07	<0.040		ug/L	
			Dissolved Silicon (Si)	2019/11/07	<50		ug/L	
			Dissolved Silver (Ag)	2019/11/07	<0.0050		ug/L	
			Dissolved Strontium (Sr)	2019/11/07	<0.050		ug/L	
			Dissolved Thallium (Tl)	2019/11/07	<0.0020		ug/L	
			Dissolved Tin (Sn)	2019/11/07	<0.20		ug/L	
			Dissolved Titanium (Ti)	2019/11/07	<0.50		ug/L	
			Dissolved Uranium (U)	2019/11/07	<0.0020		ug/L	
			Dissolved Vanadium (V)	2019/11/07	<0.20		ug/L	
			Dissolved Zinc (Zn)	2019/11/07	<0.10		ug/L	
			Dissolved Zirconium (Zr)	2019/11/07	<0.10		ug/L	
9661866	VBA	RPD [WW4566-07]	Dissolved Aluminum (Al)	2019/11/07	0.11		%	20
			Dissolved Antimony (Sb)	2019/11/07	0.37		%	20
			Dissolved Arsenic (As)	2019/11/07	0.70		%	20
			Dissolved Barium (Ba)	2019/11/07	1.3		%	20
			Dissolved Beryllium (Be)	2019/11/07	NC		%	20
			Dissolved Bismuth (Bi)	2019/11/07	NC		%	20
			Dissolved Boron (B)	2019/11/07	NC		%	20
			Dissolved Cadmium (Cd)	2019/11/07	11		%	20
			Dissolved Chromium (Cr)	2019/11/07	NC		%	20
			Dissolved Cobalt (Co)	2019/11/07	2.3		%	20
			Dissolved Copper (Cu)	2019/11/07	1.4		%	20
			Dissolved Iron (Fe)	2019/11/07	2.2		%	20
			Dissolved Lead (Pb)	2019/11/07	NC		%	20
			Dissolved Lithium (Li)	2019/11/07	0.095		%	20
			Dissolved Manganese (Mn)	2019/11/07	0.99		%	20
			Dissolved Molybdenum (Mo)	2019/11/07	0.27		%	20
			Dissolved Nickel (Ni)	2019/11/07	1.9		%	20
			Dissolved Phosphorus (P)	2019/11/07	20		%	20



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Selenium (Se)	2019/11/07	1.2		%	20
			Dissolved Silicon (Si)	2019/11/07	1.4		%	20
			Dissolved Silver (Ag)	2019/11/07	NC		%	20
			Dissolved Strontium (Sr)	2019/11/07	1.7		%	20
			Dissolved Thallium (Tl)	2019/11/07	7.1		%	20
			Dissolved Tin (Sn)	2019/11/07	NC		%	20
			Dissolved Titanium (Ti)	2019/11/07	NC		%	20
			Dissolved Uranium (U)	2019/11/07	0.69		%	20
			Dissolved Vanadium (V)	2019/11/07	7.4		%	20
			Dissolved Zinc (Zn)	2019/11/07	1.3		%	20
			Dissolved Zirconium (Zr)	2019/11/07	NC		%	20
9661882	SHI	Matrix Spike	Total Suspended Solids	2019/11/08		101	%	80 - 120
9661882	SHI	Spiked Blank	Total Suspended Solids	2019/11/08		102	%	80 - 120
9661882	SHI	Method Blank	Total Suspended Solids	2019/11/08	<4.0		mg/L	
9661882	SHI	RPD	Total Suspended Solids	2019/11/08	3.3		%	20
9661909	CJY	Matrix Spike [WW4575-08]	Dissolved Mercury (Hg)	2019/11/07		70 (1)	%	80 - 120
9661909	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/11/07		93	%	80 - 120
9661909	CJY	Method Blank	Dissolved Mercury (Hg)	2019/11/07	<0.0020		ug/L	
9661909	CJY	RPD [WW4568-08]	Dissolved Mercury (Hg)	2019/11/07	NC		%	20
9662099	CGP	Matrix Spike	Alkalinity (Total as CaCO3)	2019/11/07		NC	%	80 - 120
9662099	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2019/11/07		92	%	80 - 120
9662099	CGP	Method Blank	Alkalinity (Total as CaCO3)	2019/11/07	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/11/07	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/11/07	<0.50		mg/L	
			Carbonate (CO3)	2019/11/07	<0.50		mg/L	
			Hydroxide (OH)	2019/11/07	<0.50		mg/L	
9662099	CGP	RPD	Alkalinity (Total as CaCO3)	2019/11/07	0.67		%	20
			Alkalinity (PP as CaCO3)	2019/11/07	NC		%	20
			Bicarbonate (HCO3)	2019/11/07	0.67		%	20
			Carbonate (CO3)	2019/11/07	NC		%	20
			Hydroxide (OH)	2019/11/07	NC		%	20
9662100	CGP	Spiked Blank	Conductivity	2019/11/07		102	%	80 - 120
9662100	CGP	Method Blank	Conductivity	2019/11/07	<1.0		uS/cm	
9662100	CGP	RPD	Conductivity	2019/11/07	0.31		%	20
9662101	CGP	Spiked Blank	pH	2019/11/07		101	%	97 - 103
9662101	CGP	RPD	pH	2019/11/07	0.13		%	N/A
9662102	CGP	Matrix Spike [WW4567-01]	Alkalinity (Total as CaCO3)	2019/11/07		NC	%	80 - 120
9662102	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2019/11/07		92	%	80 - 120
9662102	CGP	Method Blank	Alkalinity (Total as CaCO3)	2019/11/07	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/11/07	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/11/07	<0.50		mg/L	
			Carbonate (CO3)	2019/11/07	<0.50		mg/L	
			Hydroxide (OH)	2019/11/07	<0.50		mg/L	
9662102	CGP	RPD [WW4567-01]	Alkalinity (Total as CaCO3)	2019/11/07	0.26		%	20
			Alkalinity (PP as CaCO3)	2019/11/07	NC		%	20
			Bicarbonate (HCO3)	2019/11/07	0.26		%	20
			Carbonate (CO3)	2019/11/07	NC		%	20
			Hydroxide (OH)	2019/11/07	NC		%	20
9662104	CGP	Spiked Blank	Conductivity	2019/11/07		100	%	80 - 120
9662104	CGP	Method Blank	Conductivity	2019/11/07	<1.0		uS/cm	
9662104	CGP	RPD [WW4567-01]	Conductivity	2019/11/07	0		%	20
9662105	CGP	Spiked Blank	pH	2019/11/07		101	%	97 - 103
9662105	CGP	RPD [WW4567-01]	pH	2019/11/07	0.62		%	N/A



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9662165	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2019/11/07		106	%	80 - 120
9662165	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/11/07		106	%	80 - 120
9662165	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/11/07	<0.020		mg/L	
9662165	MO5	RPD	Nitrate plus Nitrite (N)	2019/11/07	NC		%	25
9662166	MO5	Matrix Spike	Nitrite (N)	2019/11/07		98	%	80 - 120
9662166	MO5	Spiked Blank	Nitrite (N)	2019/11/07		104	%	80 - 120
9662166	MO5	Method Blank	Nitrite (N)	2019/11/07	<0.0050		mg/L	
9662166	MO5	RPD	Nitrite (N)	2019/11/07	NC		%	20
9662168	MO5	Matrix Spike [WW4568-01]	Nitrate plus Nitrite (N)	2019/11/07		101	%	80 - 120
9662168	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/11/07		108	%	80 - 120
9662168	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/11/07	<0.020		mg/L	
9662168	MO5	RPD [WW4568-01]	Nitrate plus Nitrite (N)	2019/11/07	2.8		%	25
9662171	MO5	Matrix Spike [WW4568-01]	Nitrite (N)	2019/11/07		94	%	80 - 120
9662171	MO5	Spiked Blank	Nitrite (N)	2019/11/07		104	%	80 - 120
9662171	MO5	Method Blank	Nitrite (N)	2019/11/07	<0.0050		mg/L	
9662171	MO5	RPD [WW4568-01]	Nitrite (N)	2019/11/07	NC		%	20
9662319	AA1	Matrix Spike	Total Aluminum (Al)	2019/11/08		98	%	80 - 120
			Total Antimony (Sb)	2019/11/08		97	%	80 - 120
			Total Arsenic (As)	2019/11/08		98	%	80 - 120
			Total Barium (Ba)	2019/11/08		100	%	80 - 120
			Total Beryllium (Be)	2019/11/08		97	%	80 - 120
			Total Bismuth (Bi)	2019/11/08		100	%	80 - 120
			Total Boron (B)	2019/11/08		100	%	80 - 120
			Total Cadmium (Cd)	2019/11/08		100	%	80 - 120
			Total Chromium (Cr)	2019/11/08		95	%	80 - 120
			Total Cobalt (Co)	2019/11/08		95	%	80 - 120
			Total Copper (Cu)	2019/11/08		95	%	80 - 120
			Total Iron (Fe)	2019/11/08		100	%	80 - 120
			Total Lead (Pb)	2019/11/08		102	%	80 - 120
			Total Lithium (Li)	2019/11/08		97	%	80 - 120
			Total Manganese (Mn)	2019/11/08		100	%	80 - 120
			Total Molybdenum (Mo)	2019/11/08		98	%	80 - 120
			Total Nickel (Ni)	2019/11/08		98	%	80 - 120
			Total Phosphorus (P)	2019/11/08		102	%	80 - 120
			Total Selenium (Se)	2019/11/08		100	%	80 - 120
			Total Silicon (Si)	2019/11/08		89	%	80 - 120
			Total Silver (Ag)	2019/11/08		99	%	80 - 120
			Total Strontium (Sr)	2019/11/08		95	%	80 - 120
			Total Thallium (Tl)	2019/11/08		100	%	80 - 120
			Total Tin (Sn)	2019/11/08		91	%	80 - 120
			Total Titanium (Ti)	2019/11/08		101	%	80 - 120
			Total Uranium (U)	2019/11/08		102	%	80 - 120
			Total Vanadium (V)	2019/11/08		95	%	80 - 120
			Total Zinc (Zn)	2019/11/08		100	%	80 - 120
			Total Zirconium (Zr)	2019/11/08		99	%	80 - 120
9662319	AA1	Spiked Blank	Total Aluminum (Al)	2019/11/08		106	%	80 - 120
			Total Antimony (Sb)	2019/11/08		102	%	80 - 120
			Total Arsenic (As)	2019/11/08		104	%	80 - 120
			Total Barium (Ba)	2019/11/08		104	%	80 - 120
			Total Beryllium (Be)	2019/11/08		102	%	80 - 120
			Total Bismuth (Bi)	2019/11/08		105	%	80 - 120
			Total Boron (B)	2019/11/08		104	%	80 - 120
			Total Cadmium (Cd)	2019/11/08		105	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2019/11/08		101	%	80 - 120
			Total Cobalt (Co)	2019/11/08		100	%	80 - 120
			Total Copper (Cu)	2019/11/08		100	%	80 - 120
			Total Iron (Fe)	2019/11/08		105	%	80 - 120
			Total Lead (Pb)	2019/11/08		108	%	80 - 120
			Total Lithium (Li)	2019/11/08		105	%	80 - 120
			Total Manganese (Mn)	2019/11/08		105	%	80 - 120
			Total Molybdenum (Mo)	2019/11/08		102	%	80 - 120
			Total Nickel (Ni)	2019/11/08		104	%	80 - 120
			Total Phosphorus (P)	2019/11/08		108	%	80 - 120
			Total Selenium (Se)	2019/11/08		103	%	80 - 120
			Total Silicon (Si)	2019/11/08		104	%	80 - 120
			Total Silver (Ag)	2019/11/08		104	%	80 - 120
			Total Strontium (Sr)	2019/11/08		101	%	80 - 120
			Total Thallium (Tl)	2019/11/08		105	%	80 - 120
			Total Tin (Sn)	2019/11/08		95	%	80 - 120
			Total Titanium (Ti)	2019/11/08		106	%	80 - 120
			Total Uranium (U)	2019/11/08		111	%	80 - 120
			Total Vanadium (V)	2019/11/08		100	%	80 - 120
			Total Zinc (Zn)	2019/11/08		106	%	80 - 120
			Total Zirconium (Zr)	2019/11/08		104	%	80 - 120
9662319	AA1	Method Blank	Total Aluminum (Al)	2019/11/08	<0.50		ug/L	
			Total Antimony (Sb)	2019/11/08	<0.020		ug/L	
			Total Arsenic (As)	2019/11/08	<0.020		ug/L	
			Total Barium (Ba)	2019/11/08	<0.020		ug/L	
			Total Beryllium (Be)	2019/11/08	<0.010		ug/L	
			Total Bismuth (Bi)	2019/11/08	<0.0050		ug/L	
			Total Boron (B)	2019/11/08	<10		ug/L	
			Total Cadmium (Cd)	2019/11/08	<0.0050		ug/L	
			Total Chromium (Cr)	2019/11/08	<0.10		ug/L	
			Total Cobalt (Co)	2019/11/08	<0.0050		ug/L	
			Total Copper (Cu)	2019/11/08	<0.050		ug/L	
			Total Iron (Fe)	2019/11/08	<1.0		ug/L	
			Total Lead (Pb)	2019/11/08	<0.0050		ug/L	
			Total Lithium (Li)	2019/11/08	<0.50		ug/L	
			Total Manganese (Mn)	2019/11/08	<0.050		ug/L	
			Total Molybdenum (Mo)	2019/11/08	<0.050		ug/L	
			Total Nickel (Ni)	2019/11/08	<0.020		ug/L	
			Total Phosphorus (P)	2019/11/08	<2.0		ug/L	
			Total Selenium (Se)	2019/11/08	<0.040		ug/L	
			Total Silicon (Si)	2019/11/08	<50		ug/L	
			Total Silver (Ag)	2019/11/08	<0.0050		ug/L	
			Total Strontium (Sr)	2019/11/08	<0.050		ug/L	
			Total Thallium (Tl)	2019/11/08	<0.0020		ug/L	
			Total Tin (Sn)	2019/11/08	<0.20		ug/L	
			Total Titanium (Ti)	2019/11/08	<0.50		ug/L	
			Total Uranium (U)	2019/11/08	<0.0020		ug/L	
			Total Vanadium (V)	2019/11/08	<0.20		ug/L	
			Total Zinc (Zn)	2019/11/08	<0.10		ug/L	
			Total Zirconium (Zr)	2019/11/08	<0.10		ug/L	
9662319	AA1	RPD	Total Aluminum (Al)	2019/11/08	3.0		%	20
			Total Antimony (Sb)	2019/11/08	NC		%	20
			Total Arsenic (As)	2019/11/08	NC		%	20
			Total Barium (Ba)	2019/11/08	NC		%	20
			Total Beryllium (Be)	2019/11/08	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Bismuth (Bi)	2019/11/08	NC		%	20
			Total Boron (B)	2019/11/08	NC		%	20
			Total Cadmium (Cd)	2019/11/08	NC		%	20
			Total Chromium (Cr)	2019/11/08	NC		%	20
			Total Cobalt (Co)	2019/11/08	NC		%	20
			Total Copper (Cu)	2019/11/08	NC		%	20
			Total Iron (Fe)	2019/11/08	NC		%	20
			Total Lead (Pb)	2019/11/08	NC		%	20
			Total Lithium (Li)	2019/11/08	NC		%	20
			Total Manganese (Mn)	2019/11/08	NC		%	20
			Total Molybdenum (Mo)	2019/11/08	NC		%	20
			Total Nickel (Ni)	2019/11/08	NC		%	20
			Total Selenium (Se)	2019/11/08	NC		%	20
			Total Silicon (Si)	2019/11/08	NC		%	20
			Total Silver (Ag)	2019/11/08	NC		%	20
			Total Strontium (Sr)	2019/11/08	NC		%	20
			Total Thallium (Tl)	2019/11/08	NC		%	20
			Total Tin (Sn)	2019/11/08	NC		%	20
			Total Titanium (Ti)	2019/11/08	NC		%	20
			Total Uranium (U)	2019/11/08	NC		%	20
			Total Vanadium (V)	2019/11/08	NC		%	20
			Total Zinc (Zn)	2019/11/08	NC		%	20
			Total Zirconium (Zr)	2019/11/08	NC		%	20
			Total Aluminum (Al)	2019/11/08	NC		%	20
			Total Antimony (Sb)	2019/11/08	NC		%	20
			Total Arsenic (As)	2019/11/08	NC		%	20
			Total Barium (Ba)	2019/11/08	NC		%	20
			Total Beryllium (Be)	2019/11/08	NC		%	20
			Total Bismuth (Bi)	2019/11/08	NC		%	20
			Total Boron (B)	2019/11/08	NC		%	20
			Total Cadmium (Cd)	2019/11/08	NC		%	20
			Total Chromium (Cr)	2019/11/08	NC		%	20
			Total Cobalt (Co)	2019/11/08	NC		%	20
			Total Copper (Cu)	2019/11/08	NC		%	20
			Total Iron (Fe)	2019/11/08	NC		%	20
			Total Lead (Pb)	2019/11/08	NC		%	20
			Total Lithium (Li)	2019/11/08	NC		%	20
			Total Manganese (Mn)	2019/11/08	NC		%	20
			Total Molybdenum (Mo)	2019/11/08	NC		%	20
			Total Nickel (Ni)	2019/11/08	NC		%	20
			Total Selenium (Se)	2019/11/08	NC		%	20
			Total Silicon (Si)	2019/11/08	NC		%	20
			Total Silver (Ag)	2019/11/08	NC		%	20
			Total Strontium (Sr)	2019/11/08	NC		%	20
			Total Thallium (Tl)	2019/11/08	NC		%	20
			Total Tin (Sn)	2019/11/08	NC		%	20
			Total Titanium (Ti)	2019/11/08	NC		%	20
			Total Uranium (U)	2019/11/08	NC		%	20
			Total Vanadium (V)	2019/11/08	NC		%	20
			Total Zinc (Zn)	2019/11/08	4.5		%	20
			Total Zirconium (Zr)	2019/11/08	NC		%	20
			Total Aluminum (Al)	2019/11/08	NC		%	20
			Total Antimony (Sb)	2019/11/08	NC		%	20
			Total Arsenic (As)	2019/11/08	NC		%	20
			Total Barium (Ba)	2019/11/08	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2019/11/08	NC		%	20
			Total Bismuth (Bi)	2019/11/08	NC		%	20
			Total Boron (B)	2019/11/08	NC		%	20
			Total Cadmium (Cd)	2019/11/08	NC		%	20
			Total Chromium (Cr)	2019/11/08	NC		%	20
			Total Cobalt (Co)	2019/11/08	NC		%	20
			Total Copper (Cu)	2019/11/08	NC		%	20
			Total Iron (Fe)	2019/11/08	NC		%	20
			Total Lead (Pb)	2019/11/08	NC		%	20
			Total Lithium (Li)	2019/11/08	NC		%	20
			Total Manganese (Mn)	2019/11/08	NC		%	20
			Total Molybdenum (Mo)	2019/11/08	NC		%	20
			Total Nickel (Ni)	2019/11/08	NC		%	20
			Total Selenium (Se)	2019/11/08	NC		%	20
			Total Silicon (Si)	2019/11/08	NC		%	20
			Total Silver (Ag)	2019/11/08	NC		%	20
			Total Strontium (Sr)	2019/11/08	NC		%	20
			Total Thallium (Tl)	2019/11/08	NC		%	20
			Total Tin (Sn)	2019/11/08	NC		%	20
			Total Titanium (Ti)	2019/11/08	NC		%	20
			Total Uranium (U)	2019/11/08	NC		%	20
			Total Vanadium (V)	2019/11/08	NC		%	20
			Total Zinc (Zn)	2019/11/08	NC		%	20
			Total Zirconium (Zr)	2019/11/08	NC		%	20
9662508	CJY	Matrix Spike	Total Mercury (Hg)	2019/11/08		85	%	80 - 120
9662508	CJY	Spiked Blank	Total Mercury (Hg)	2019/11/08		102	%	80 - 120
9662508	CJY	Method Blank	Total Mercury (Hg)	2019/11/08	<0.0020		ug/L	
9662508	CJY	RPD	Total Mercury (Hg)	2019/11/08	NC		%	20
9662581	BB3	Matrix Spike	Dissolved Chloride (Cl)	2019/11/07		98	%	80 - 120
			Dissolved Sulphate (SO4)	2019/11/07		NC	%	80 - 120
9662581	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/11/07		102	%	80 - 120
			Dissolved Sulphate (SO4)	2019/11/07		100	%	80 - 120
9662581	BB3	Method Blank	Dissolved Chloride (Cl)	2019/11/07	<0.50		mg/L	
			Dissolved Sulphate (SO4)	2019/11/07	0.54, RDL=0.50		mg/L	
9662581	BB3	RPD	Dissolved Chloride (Cl)	2019/11/07	NC		%	20
			Dissolved Sulphate (SO4)	2019/11/07	1.8		%	20
9662582	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/11/07		99	%	80 - 120
			Dissolved Sulphate (SO4)	2019/11/07		98	%	80 - 120
9662582	BB3	Method Blank	Dissolved Chloride (Cl)	2019/11/07	<0.50		mg/L	
			Dissolved Sulphate (SO4)	2019/11/07	<0.50		mg/L	
9664080	HE1	Matrix Spike	Total Dissolved Solids	2019/11/08		NC	%	80 - 120
9664080	HE1	Spiked Blank	Total Dissolved Solids	2019/11/08		100	%	80 - 120
9664080	HE1	Method Blank	Total Dissolved Solids	2019/11/08	<1.0		mg/L	
9664080	HE1	RPD	Total Dissolved Solids	2019/11/08	0.38		%	20
9666674	TMU	Matrix Spike	Strong Acid Dissoc. Cyanide (CN)	2019/11/13		95	%	80 - 120
9666674	TMU	Spiked Blank	Strong Acid Dissoc. Cyanide (CN)	2019/11/13		98	%	80 - 120
9666674	TMU	Method Blank	Strong Acid Dissoc. Cyanide (CN)	2019/11/13	<0.00050		mg/L	
9666674	TMU	RPD	Strong Acid Dissoc. Cyanide (CN)	2019/11/13	NC		%	20
9666676	TMU	Matrix Spike	Weak Acid Dissoc. Cyanide (CN)	2019/11/13		95	%	80 - 120
9666676	TMU	Spiked Blank	Weak Acid Dissoc. Cyanide (CN)	2019/11/13		98	%	80 - 120
9666676	TMU	Method Blank	Weak Acid Dissoc. Cyanide (CN)	2019/11/13	<0.00050		mg/L	
9666676	TMU	RPD	Weak Acid Dissoc. Cyanide (CN)	2019/11/13	NC		%	20
9667825	AA1	Matrix Spike	Total Aluminum (Al)	2019/11/13		93	%	80 - 120
			Total Antimony (Sb)	2019/11/13		101	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Arsenic (As)	2019/11/13		105	%	80 - 120
			Total Barium (Ba)	2019/11/13		NC	%	80 - 120
			Total Beryllium (Be)	2019/11/13		99	%	80 - 120
			Total Bismuth (Bi)	2019/11/13		96	%	80 - 120
			Total Boron (B)	2019/11/13		97	%	80 - 120
			Total Cadmium (Cd)	2019/11/13		101	%	80 - 120
			Total Chromium (Cr)	2019/11/13		100	%	80 - 120
			Total Cobalt (Co)	2019/11/13		97	%	80 - 120
			Total Copper (Cu)	2019/11/13		93	%	80 - 120
			Total Iron (Fe)	2019/11/13		96	%	80 - 120
			Total Lead (Pb)	2019/11/13		101	%	80 - 120
			Total Lithium (Li)	2019/11/13		96	%	80 - 120
			Total Manganese (Mn)	2019/11/13		NC	%	80 - 120
			Total Molybdenum (Mo)	2019/11/13		109	%	80 - 120
			Total Nickel (Ni)	2019/11/13		96	%	80 - 120
			Total Phosphorus (P)	2019/11/13		106	%	80 - 120
			Total Selenium (Se)	2019/11/13		104	%	80 - 120
			Total Silicon (Si)	2019/11/13		NC	%	80 - 120
			Total Silver (Ag)	2019/11/13		101	%	80 - 120
			Total Strontium (Sr)	2019/11/13		NC	%	80 - 120
			Total Thallium (Tl)	2019/11/13		101	%	80 - 120
			Total Tin (Sn)	2019/11/13		102	%	80 - 120
			Total Titanium (Ti)	2019/11/13		101	%	80 - 120
			Total Uranium (U)	2019/11/13		103	%	80 - 120
			Total Vanadium (V)	2019/11/13		100	%	80 - 120
			Total Zinc (Zn)	2019/11/13		94	%	80 - 120
			Total Zirconium (Zr)	2019/11/13		98	%	80 - 120
			Total Sulphur (S)	2019/11/13		104	%	80 - 120
9667825	AA1	Spiked Blank	Total Aluminum (Al)	2019/11/13		103	%	80 - 120
			Total Antimony (Sb)	2019/11/13		102	%	80 - 120
			Total Arsenic (As)	2019/11/13		102	%	80 - 120
			Total Barium (Ba)	2019/11/13		102	%	80 - 120
			Total Beryllium (Be)	2019/11/13		102	%	80 - 120
			Total Bismuth (Bi)	2019/11/13		101	%	80 - 120
			Total Boron (B)	2019/11/13		99	%	80 - 120
			Total Cadmium (Cd)	2019/11/13		103	%	80 - 120
			Total Chromium (Cr)	2019/11/13		102	%	80 - 120
			Total Cobalt (Co)	2019/11/13		106	%	80 - 120
			Total Copper (Cu)	2019/11/13		101	%	80 - 120
			Total Iron (Fe)	2019/11/13		105	%	80 - 120
			Total Lead (Pb)	2019/11/13		104	%	80 - 120
			Total Lithium (Li)	2019/11/13		104	%	80 - 120
			Total Manganese (Mn)	2019/11/13		100	%	80 - 120
			Total Molybdenum (Mo)	2019/11/13		103	%	80 - 120
			Total Nickel (Ni)	2019/11/13		103	%	80 - 120
			Total Phosphorus (P)	2019/11/13		104	%	80 - 120
			Total Selenium (Se)	2019/11/13		105	%	80 - 120
			Total Silicon (Si)	2019/11/13		106	%	80 - 120
			Total Silver (Ag)	2019/11/13		103	%	80 - 120
			Total Strontium (Sr)	2019/11/13		98	%	80 - 120
			Total Thallium (Tl)	2019/11/13		101	%	80 - 120
			Total Tin (Sn)	2019/11/13		101	%	80 - 120
			Total Titanium (Ti)	2019/11/13		101	%	80 - 120
			Total Uranium (U)	2019/11/13		103	%	80 - 120
			Total Vanadium (V)	2019/11/13		100	%	80 - 120



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits	
9667825	AA1	Method Blank	Total Zinc (Zn)	2019/11/13		104	%	80 - 120	
			Total Zirconium (Zr)	2019/11/13		101	%	80 - 120	
			Total Sulphur (S)	2019/11/13		104	%	80 - 120	
			Total Aluminum (Al)	2019/11/13	<3.0			ug/L	
			Total Antimony (Sb)	2019/11/13	<0.020			ug/L	
			Total Arsenic (As)	2019/11/13	<0.020			ug/L	
			Total Barium (Ba)	2019/11/13	<0.050			ug/L	
			Total Beryllium (Be)	2019/11/13	<0.010			ug/L	
			Total Bismuth (Bi)	2019/11/13	<0.010			ug/L	
			Total Boron (B)	2019/11/13	<10			ug/L	
			Total Cadmium (Cd)	2019/11/13	<0.0050			ug/L	
			Total Chromium (Cr)	2019/11/13	<0.10			ug/L	
			Total Cobalt (Co)	2019/11/13	<0.010			ug/L	
			Total Copper (Cu)	2019/11/13	<0.10			ug/L	
			Total Iron (Fe)	2019/11/13	<5.0			ug/L	
			Total Lead (Pb)	2019/11/13	<0.020			ug/L	
			Total Lithium (Li)	2019/11/13	<0.50			ug/L	
			Total Manganese (Mn)	2019/11/13	<0.10			ug/L	
			Total Molybdenum (Mo)	2019/11/13	<0.050			ug/L	
			Total Nickel (Ni)	2019/11/13	<0.10			ug/L	
			Total Phosphorus (P)	2019/11/13	<5.0			ug/L	
			Total Selenium (Se)	2019/11/13	<0.040			ug/L	
			Total Silicon (Si)	2019/11/13	<50			ug/L	
			Total Silver (Ag)	2019/11/13	<0.010			ug/L	
			Total Strontium (Sr)	2019/11/13	<0.050			ug/L	
			Total Thallium (Tl)	2019/11/13	<0.0020			ug/L	
			Total Tin (Sn)	2019/11/13	<0.20			ug/L	
			Total Titanium (Ti)	2019/11/13	<2.0			ug/L	
			Total Uranium (U)	2019/11/13	<0.0050			ug/L	
			Total Vanadium (V)	2019/11/13	<0.20			ug/L	
Total Zinc (Zn)	2019/11/13	<1.0			ug/L				
Total Zirconium (Zr)	2019/11/13	<0.10			ug/L				
Total Sulphur (S)	2019/11/13	<600			ug/L				
9667825	AA1	RPD	Total Aluminum (Al)	2019/11/13	19		%	20	
			Total Antimony (Sb)	2019/11/13	2.9		%	20	
			Total Arsenic (As)	2019/11/13	0.38		%	20	
			Total Barium (Ba)	2019/11/13	0.99		%	20	
			Total Beryllium (Be)	2019/11/13	3.6		%	20	
			Total Bismuth (Bi)	2019/11/13	NC		%	20	
			Total Boron (B)	2019/11/13	1.9		%	20	
			Total Cadmium (Cd)	2019/11/13	NC		%	20	
			Total Chromium (Cr)	2019/11/13	14		%	20	
			Total Cobalt (Co)	2019/11/13	4.1		%	20	
			Total Copper (Cu)	2019/11/13	1.5		%	20	
			Total Iron (Fe)	2019/11/13	7.9		%	20	
			Total Lead (Pb)	2019/11/13	4.5		%	20	
			Total Lithium (Li)	2019/11/13	3.0		%	20	
			Total Manganese (Mn)	2019/11/13	1.7		%	20	
			Total Molybdenum (Mo)	2019/11/13	0.40		%	20	
			Total Nickel (Ni)	2019/11/13	0.34		%	20	
			Total Phosphorus (P)	2019/11/13	7.4		%	20	
			Total Selenium (Se)	2019/11/13	0.75		%	20	
			Total Silicon (Si)	2019/11/13	2.1		%	20	
Total Silver (Ag)	2019/11/13	NC		%	20				
Total Strontium (Sr)	2019/11/13	1.7		%	20				



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Thallium (Tl)	2019/11/13	NC		%	20
			Total Tin (Sn)	2019/11/13	NC		%	20
			Total Titanium (Ti)	2019/11/13	NC		%	20
			Total Uranium (U)	2019/11/13	0.13		%	20
			Total Vanadium (V)	2019/11/13	19		%	20
			Total Zinc (Zn)	2019/11/13	NC		%	20
			Total Zirconium (Zr)	2019/11/13	4.7		%	20
			Total Sulphur (S)	2019/11/13	2.4		%	20
9668251	FM0	Matrix Spike	Total Ammonia (N)	2019/11/14		121 (1)	%	80 - 120
9668251	FM0	Spiked Blank	Total Ammonia (N)	2019/11/14		119	%	80 - 120
9668251	FM0	Method Blank	Total Ammonia (N)	2019/11/14	<0.0050		mg/L	
9668251	FM0	RPD	Total Ammonia (N)	2019/11/14	3.2		%	20
9668401	FM0	Matrix Spike	Total Ammonia (N)	2019/11/14		109	%	80 - 120
9668401	FM0	Spiked Blank	Total Ammonia (N)	2019/11/14		119	%	80 - 120
9668401	FM0	Method Blank	Total Ammonia (N)	2019/11/14	<0.0050		mg/L	
9668401	FM0	RPD	Total Ammonia (N)	2019/11/14	7.8		%	20
9669290	AA1	Spiked Blank	Dissolved Cobalt (Co)	2019/11/13		100	%	80 - 120
			Dissolved Copper (Cu)	2019/11/13		99	%	80 - 120
			Dissolved Iron (Fe)	2019/11/13		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2019/11/13		100	%	80 - 120
9669290	AA1	Method Blank	Dissolved Cobalt (Co)	2019/11/13	<0.0050		ug/L	
			Dissolved Copper (Cu)	2019/11/13	<0.050		ug/L	
			Dissolved Iron (Fe)	2019/11/13	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2019/11/13	<0.050		ug/L	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B995758
Report Date: 2019/11/14

Golden Predator Exploration
Client Project #: BREWERY CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Spécialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Your Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Your C.O.C. #: 600066-01-01

Attention: Jillian Chown

Golden Predator Exploration
 Suite 250-200 Burrard St
 Vancouver, BC
 CANADA V6C 3L6

Report Date: 2019/12/30
 Report #: R2829573
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9A9106

Received: 2019/12/19, 10:00

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	10	N/A	2019/12/23	BBY6SOP-00026	SM 22 2320 B m
Low level chloride/sulphate by AC	10	N/A	2019/12/23	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Cyanide SAD (strong acid dissociable) (1)	10	N/A	2019/12/30	CAL SOP-00270	SM 23 4500-CN m
Cyanide WAD (weak acid dissociable) (1)	10	N/A	2019/12/30	CAL SOP-00270	SM 23 4500-CN m
Conductance - Low Level	10	N/A	2019/12/23	BBY6SOP-00026	SM 22 2510 B m
Hardness Total (calculated as CaCO3) (2)	10	N/A	2019/12/24	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2019/12/24	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	9	2019/12/23	2019/12/23	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV	1	2019/12/24	2019/12/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	1	2019/12/23	2019/12/23	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	9	2019/12/24	2019/12/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	10	N/A	2019/12/24	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	10	N/A	2019/12/23	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	10	N/A	2019/12/24	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	10	N/A	2019/12/24	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	10	N/A	2019/12/27	BBY6SOP-00016	SM 23 4500-N C m
Ammonia-N Low Level (Preserved) (1)	10	N/A	2019/12/27	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	10	N/A	2019/12/21	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	10	N/A	2019/12/21	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	10	N/A	2019/12/21	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	9	N/A	2019/12/20	BBY7 WI-00004	SM 23 3030B m
pH @25°C (3)	10	N/A	2019/12/23	BBY6SOP-00026	SM 22 4500-H+ B m
Total Dissolved Solids - Low Level (1)	9	2019/12/24	2019/12/24	AB SOP-00065	SM 23 2540 C m
TKN (Calc. TN, N/N) total	10	N/A	2019/12/27	BBY WI-00033	Auto Calc
Total Phosphorus (1)	10	2019/12/27	2019/12/27	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR)	9	2019/12/23	2019/12/24	BBY6SOP-00034	SM 23 2540 D m
Total Suspended Solids (NFR)	1	2019/12/23	2019/12/27	BBY6SOP-00034	SM 23 2540 D m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) This test was performed by BV Labs Calgary Environmental

(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are



Your Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Your C.O.C. #: 600066-01-01

Attention: Jillian Chown

Golden Predator Exploration
Suite 250-200 Burrard St
Vancouver, BC
CANADA V6C 3L6

Report Date: 2019/12/30
Report #: R2829573
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9A9106

Received: 2019/12/19, 10:00

reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

Encryption Key

Diana Cruz
Project Manager
30 Dec 2019 20:49:09

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bvlab.com

Phone# (604) 734 7276

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7819 TRIP BLANK								
Sampling Date								
Matrix WATER								
Sample # TRIP BLANK								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717722
Calculated Parameters								
Dissolved Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	<0.020	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.029	0.020	mg/L	N/A	N/A	2019/12/27		9716440
Misc. Inorganics								
Alkalinity (Total as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	5.12	N/A	pH	+/- 0.0742	N/A	2019/12/23	WAY	9718519
Total Suspended Solids	1.6(1)	1.0	mg/L	+/- <RDL	2019/12/23	2019/12/27	WZ1	9720111
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718822
Dissolved Sulphate (SO4)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718822
Nutrients								
Total Ammonia (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	<0.020	0.020	mg/L	N/A	N/A	2019/12/21	MO5	9717721
Total Nitrogen (N)	0.029	0.020	mg/L	+/- 0.020	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	<1.0	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	<0.020	0.020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	<0.020	0.020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	<0.020	0.020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BV Labs Job #: B9A9106
 Report Date: 2019/12/30

Golden Predator Exploration
 Client Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7819 TRIP BLANK								
Sampling Date								
Matrix WATER								
Sample # TRIP BLANK								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	<0.050	0.050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	<1.0	1.0	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	<0.050	0.050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	<0.020	0.020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	<2.0	2.0	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	<0.040	0.040	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	<50	50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	<0.050	0.050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	<3.0	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	<0.020	0.020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	<0.020	0.020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	<0.020	0.020	ug/L	N/A	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7819 TRIP BLANK								
Sampling Date								
Matrix WATER								
Sample # TRIP BLANK								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	<0.050	0.050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	<1.0	1.0	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	<0.050	0.050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	<0.050	0.050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	<0.020	0.020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	<2.0	2.0	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	<0.040	0.040	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	<50	50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	<0.050	0.050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	<0.050	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	<3.0	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719558



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7819 TRIP BLANK Sampling Date Matrix WATER Sample # TRIP BLANK MERCURY BY COLD VAPOR (WATER) Elements Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547
XD7820 BC 34 Sampling Date 2019/12/16 10:20 Matrix WATER Sample # BC 34 RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) Calculated Parameters Filter and HNO3 Preservation Dissolved Hardness (CaCO3) Total Hardness (CaCO3) Nitrate (N) Total Total Kjeldahl Nitrogen (Calc) Misc. Inorganics Alkalinity (Total as CaCO3) Alkalinity (PP as CaCO3) Bicarbonate (HCO3) Carbonate (CO3) Hydroxide (OH) Strong Acid Dissoc. Cyanide (CN) Weak Acid Dissoc. Cyanide (CN) pH Total Suspended Solids Anions Dissolved Chloride (Cl) Dissolved Sulphate (SO4) Nutrients Total Ammonia (N) Nitrate plus Nitrite (N) Total Nitrogen (N) Total Phosphorus (P) Physical Properties Conductivity	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
	351	0.50	mg/L	N/A	N/A	2019/12/24		9716259
	360	0.50	mg/L	N/A	N/A	2019/12/24		9716270
	0.328	0.020	mg/L	N/A	N/A	2019/12/21		9716375
	0.106	0.020	mg/L	N/A	N/A	2019/12/27		9716440
	160	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
	195	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
	8.12	N/A	pH	+/- 0.118	N/A	2019/12/23	WAY	9718519
	2.4	1.0	mg/L	+/- <RDL	2019/12/23	2019/12/24	WZ1	9718189
	0.78	0.50	mg/L	+/- 0.77	N/A	2019/12/23	BB3	9718824
	210(3)	5.0	mg/L	N/A	N/A	2019/12/23	BB3	9718824
	0.0086	0.0050	mg/L	+/- <RDL	N/A	2019/12/27	JLD	9721111
	0.328	0.020	mg/L	+/- 0.051	N/A	2019/12/21	MO5	9717725
	0.434	0.020	mg/L	+/- 0.046	N/A	2019/12/27	MO5	9720065
	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
	693	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7820 BC 34								
Sampling Date	2019/12/16 10:20							
Matrix	WATER							
Sample #	BC 34							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Total Dissolved Solids	470(4)	1.1	mg/L	+/- 16.3	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	2.05	0.50	ug/L	+/- 5.47	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.197	0.020	ug/L	+/- 0.028	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.205	0.020	ug/L	+/- 0.052	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	47.4	0.020	ug/L	+/- 4.14	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	59(5)	10	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0891	0.0050	ug/L	+/- 0.0137	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0368	0.0050	ug/L	+/- 0.0089	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.921	0.050	ug/L	+/- 0.145	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	5.7	1.0	ug/L	+/- 1.8	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	0.0126	0.0050	ug/L	+/- 0.0150	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	2.74	0.50	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	11.1	0.050	ug/L	+/- 1.10	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	1.52	0.050	ug/L	+/- 0.199	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	2.14	0.020	ug/L	+/- 0.546	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	10.0	2.0	ug/L	+/- 6.1	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	2.40	0.040	ug/L	+/- 0.383	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	3110	50	ug/L	+/- 461	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	364	0.050	ug/L	+/- 27.1	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	0.0023	0.0020	ug/L	+/- 0.0031	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	2.92	0.0020	ug/L	+/- 0.372	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.65	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	86.7(5)	0.10	ug/L	+/- 17.4	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	85.5	0.050	mg/L	N/A	N/A	2019/12/24		9716715

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7820 BC 34								
Sampling Date	2019/12/16 10:20							
Matrix	WATER							
Sample #	BC 34							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Magnesium (Mg)	33.4	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.841	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	2.73(5)	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	64.5	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	6.35	0.50	ug/L	+/- 0.74	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.199	0.020	ug/L	+/- 0.028	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.216	0.020	ug/L	+/- 0.053	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	48.7	0.020	ug/L	+/- 4.25	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0951	0.0050	ug/L	+/- 0.0129	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0419	0.0050	ug/L	+/- 0.0092	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.664	0.050	ug/L	+/- 0.081	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	18.5	1.0	ug/L	+/- 2.1	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0062	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	3.03	0.50	ug/L	+/- 0.51	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	12.9	0.050	ug/L	+/- 1.27	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	1.52	0.050	ug/L	+/- 0.181	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	2.05	0.020	ug/L	+/- 0.185	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	8.5	2.0	ug/L	+/- 5.9	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	2.46	0.040	ug/L	+/- 0.329	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	3300	50	ug/L	+/- 489	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	370	0.050	ug/L	+/- 27.5	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	0.0024	0.0020	ug/L	+/- 0.0031	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	3.00	0.0020	ug/L	+/- 0.383	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.60	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	10.6	0.10	ug/L	+/- 2.25	N/A	2019/12/24	VBA	9718922

- (1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7820 BC 34 Sampling Date 2019/12/16 10:20 Matrix WATER Sample # BC 34 ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Total Metals by ICPMS Total Zirconium (Zr) <0.10 0.10 ug/L N/A N/A 2019/12/24 VBA 9718922 Total Calcium (Ca) 88.4 0.050 mg/L N/A N/A 2019/12/24 9716719 Total Magnesium (Mg) 33.8 0.050 mg/L N/A N/A 2019/12/24 9716719 Total Potassium (K) 0.750 0.050 mg/L N/A N/A 2019/12/24 9716719 Total Sodium (Na) 1.69 0.050 mg/L N/A N/A 2019/12/24 9716719 Total Sulphur (S) 65.9 3.0 mg/L N/A N/A 2019/12/24 9716719 MERCURY BY COLD VAPOR (WATER) Elements Dissolved Mercury (Hg) <0.0020 0.0020 ug/L N/A 2019/12/23 2019/12/23 CJY 9718547 Total Mercury (Hg) <0.0020 0.0020 ug/L N/A 2019/12/23 2019/12/23 CJY 9718695								
XD7821 BC 35 R Sampling Date 2019/12/17 11:00 Matrix WATER Sample # BC 35 R RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) <0.0050 0.0050 mg/L N/A N/A 2019/12/21 MO5 9717726 Calculated Parameters Filter and HNO3 Preservation FIELD N/A N/A N/A 2019/12/20 ONSITE Dissolved Hardness (CaCO3) 378 0.50 mg/L N/A N/A 2019/12/24 9716259 Total Hardness (CaCO3) 368 0.50 mg/L N/A N/A 2019/12/24 9716270 Nitrate (N) 0.094 0.020 mg/L N/A N/A 2019/12/21 9716375 Total Total Kjeldahl Nitrogen (Calc) 0.186 0.020 mg/L N/A N/A 2019/12/27 9716440 Misc. Inorganics Alkalinity (Total as CaCO3) 197 0.50 mg/L N/A N/A 2019/12/23 WAY 9718523 Alkalinity (PP as CaCO3) <0.50 0.50 mg/L N/A N/A 2019/12/23 WAY 9718523 Bicarbonate (HCO3) 241 0.50 mg/L N/A N/A 2019/12/23 WAY 9718523 Carbonate (CO3) <0.50 0.50 mg/L N/A N/A 2019/12/23 WAY 9718523 Hydroxide (OH) <0.50 0.50 mg/L N/A N/A 2019/12/23 WAY 9718523 Strong Acid Dissoc. Cyanide (CN) <0.00050 0.00050 mg/L N/A N/A 2019/12/30 TMU 9720727 Weak Acid Dissoc. Cyanide (CN) <0.00050 0.00050 mg/L N/A N/A 2019/12/30 TMU 9720728 pH 8.15 N/A pH +/- 0.118 N/A 2019/12/23 WAY 9718519 Total Suspended Solids <1.0 1.0 mg/L N/A 2019/12/23 2019/12/24 WZ1 9718445								



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7821 BC 35 R								
Sampling Date	2019/12/17 11:00							
Matrix	WATER							
Sample #	BC 35 R							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Dissolved Sulphate (SO4)	190	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Nutrients								
Total Ammonia (N)	0.033	0.0050	mg/L	+/- <RDL	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.094	0.020	mg/L	+/- <RDL	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.280	0.020	mg/L	+/- 0.033	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	695	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	473(2)	1.3	mg/L	+/- 16.3	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	2.38	0.50	ug/L	+/- 6.10	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.202	0.020	ug/L	+/- 0.028	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.231	0.020	ug/L	+/- 0.053	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	76.5	0.020	ug/L	+/- 6.67	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0275	0.0050	ug/L	+/- 0.0080	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0188	0.0050	ug/L	+/- 0.0081	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.720	0.050	ug/L	+/- 0.135	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	9.6	1.0	ug/L	+/- 2.0	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	0.0143	0.0050	ug/L	+/- 0.0150	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	5.93	0.50	ug/L	+/- 0.52	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	4.51	0.050	ug/L	+/- 0.465	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	2.41	0.050	ug/L	+/- 0.309	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	0.680	0.020	ug/L	+/- 0.198	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	8.2	2.0	ug/L	+/- 5.9	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	1.15	0.040	ug/L	+/- 0.188	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	3670	50	ug/L	+/- 544	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume. Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7821 BC 35 R								
Sampling Date	2019/12/17 11:00							
Matrix	WATER							
Sample #	BC 35 R							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Strontium (Sr)	376	0.050	ug/L	+/- 28.0	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	1.60	0.0020	ug/L	+/- 0.205	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.50	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	1.41	0.10	ug/L	+/- 1.70	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	93.8	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	35.0	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.900	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	1.85	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	57.1	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	5.76	0.50	ug/L	+/- 0.69	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.190	0.020	ug/L	+/- 0.028	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.236	0.020	ug/L	+/- 0.054	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	76.0	0.020	ug/L	+/- 6.63	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0297	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0215	0.0050	ug/L	+/- 0.0081	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.911	0.050	ug/L	+/- 0.106	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	18.5	1.0	ug/L	+/- 2.1	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0390	0.0050	ug/L	+/- 0.0074	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	6.09	0.50	ug/L	+/- 0.78	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	5.00	0.050	ug/L	+/- 0.513	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	2.50	0.050	ug/L	+/- 0.296	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	0.730	0.020	ug/L	+/- 0.070	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	7.9	2.0	ug/L	+/- 5.8	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	1.12	0.040	ug/L	+/- 0.151	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7821 BC 35 R Sampling Date 2019/12/17 11:00 Matrix WATER Sample # BC 35 R								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Silicon (Si)	3530	50	ug/L	+/- 524	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	377	0.050	ug/L	+/- 28.0	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	1.58	0.0020	ug/L	+/- 0.202	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.53	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	1.76	0.10	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	90.6	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	34.5	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.903	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	1.79	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	55.6	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547
XD7822 BC 35 Sampling Date 2019/12/17 11:30 Matrix WATER Sample # BC 35								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
Dissolved Hardness (CaCO3)	420	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	393	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	0.148	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.126	0.020	mg/L	N/A	N/A	2019/12/27		9716440
Misc. Inorganics								
Alkalinity (Total as CaCO3)	211	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7822 BC 35								
Sampling Date	2019/12/17 11:30							
Matrix	WATER							
Sample #	BC 35							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	257	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	8.13	N/A	pH	+/- 0.118	N/A	2019/12/23	WAY	9718519
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/12/23	2019/12/24	WZ1	9718445
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718822
Dissolved Sulphate (SO4)	190	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718822
Nutrients								
Total Ammonia (N)	0.026	0.0050	mg/L	+/- <RDL	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.148	0.020	mg/L	+/- 0.023	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.275	0.020	mg/L	+/- 0.033	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	740	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	501(2)	1.2	mg/L	+/- 17.3	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	2.77	0.50	ug/L	+/- 6.83	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.254	0.020	ug/L	+/- 0.032	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.571	0.020	ug/L	+/- 0.079	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	75.6	0.020	ug/L	+/- 6.60	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0474	0.0050	ug/L	+/- 0.0095	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0725	0.0050	ug/L	+/- 0.0115	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.490	0.050	ug/L	+/- 0.126	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	39.0	1.0	ug/L	+/- 4.4	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume. Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7822 BC 35								
Sampling Date	2019/12/17 11:30							
Matrix	WATER							
Sample #	BC 35							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	9.02	0.50	ug/L	+/- 0.76	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	21.6	0.050	ug/L	+/- 2.13	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	0.833	0.050	ug/L	+/- 0.117	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	1.78	0.020	ug/L	+/- 0.458	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	4.7	2.0	ug/L	+/- 5.5	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	0.860	0.040	ug/L	+/- 0.143	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	3770	50	ug/L	+/- 558	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	488	0.050	ug/L	+/- 36.3	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	3.46	0.0020	ug/L	+/- 0.441	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.37	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	9.19	0.10	ug/L	+/- 2.63	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	95.6	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	44.0	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	1.06	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	2.70	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	63.8	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	5.82	0.50	ug/L	+/- 0.69	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.243	0.020	ug/L	+/- 0.031	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.532	0.020	ug/L	+/- 0.075	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	72.1	0.020	ug/L	+/- 6.29	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0463	0.0050	ug/L	+/- 0.0065	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	0.11	0.10	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0721	0.0050	ug/L	+/- 0.0114	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7822 BC 35								
Sampling Date	2019/12/17 11:30							
Matrix	WATER							
Sample #	BC 35							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Copper (Cu)	0.456	0.050	ug/L	+/- 0.061	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	53.4	1.0	ug/L	+/- 5.8	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0112	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	8.79	0.50	ug/L	+/- 1.06	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	21.4	0.050	ug/L	+/- 2.11	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	0.806	0.050	ug/L	+/- 0.097	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	1.66	0.020	ug/L	+/- 0.151	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	4.6	2.0	ug/L	+/- 5.5	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	0.814	0.040	ug/L	+/- 0.109	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	3520	50	ug/L	+/- 521	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	465	0.050	ug/L	+/- 34.6	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	3.25	0.0020	ug/L	+/- 0.414	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.26	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	9.64	0.10	ug/L	+/- 2.05	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	89.9	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	40.9	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.997	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	2.48	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	60.1	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020(6)	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547

- (1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7823 BC 33								
Sampling Date	2019/12/17 12:00							
Matrix	WATER							
Sample #	BC 33							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
Dissolved Hardness (CaCO3)	392	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	353	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	0.347	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.105	0.020	mg/L	N/A	N/A	2019/12/27		9716440
Misc. Inorganics								
Alkalinity (Total as CaCO3)	157	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	192	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	8.12	N/A	pH	+/- 0.118	N/A	2019/12/23	WAY	9718519
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/12/23	2019/12/24	WZ1	9718445
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Dissolved Sulphate (SO4)	230(3)	5.0	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Nutrients								
Total Ammonia (N)	0.22	0.0050	mg/L	+/- 0.029	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.347	0.020	mg/L	+/- 0.054	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.453	0.020	mg/L	+/- 0.048	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	683	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	471(2)	1.2	mg/L	+/- 16.3	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.69	0.50	ug/L	+/- 4.82	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.220	0.020	ug/L	+/- 0.030	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.242	0.020	ug/L	+/- 0.054	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume. Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7823 BC 33								
Sampling Date	2019/12/17 12:00							
Matrix	WATER							
Sample #	BC 33							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Barium (Ba)	51.2	0.020	ug/L	+/- 4.47	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	11	10	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.106	0.0050	ug/L	+/- 0.0156	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	0.25	0.10	ug/L	+/- 0.23	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0278	0.0050	ug/L	+/- 0.0084	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.780	0.050	ug/L	+/- 0.138	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	6.2	1.0	ug/L	+/- 1.8	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	0.0100	0.0050	ug/L	+/- 0.0150	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	3.00	0.50	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	6.72	0.050	ug/L	+/- 0.679	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	1.58	0.050	ug/L	+/- 0.207	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	2.47	0.020	ug/L	+/- 0.626	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	9.6	2.0	ug/L	+/- 6.0	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	2.69	0.040	ug/L	+/- 0.429	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	3410	50	ug/L	+/- 505	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	417	0.050	ug/L	+/- 31.0	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	0.0022	0.0020	ug/L	+/- 0.0031	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	3.15	0.0020	ug/L	+/- 0.402	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.78	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	35.9(5)	0.10	ug/L	+/- 7.57	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	93.6	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	38.4	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.861	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	1.99	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	74.4	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	7.25	0.50	ug/L	+/- 0.81	N/A	2019/12/24	VBA	9718922

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7823 BC 33								
Sampling Date	2019/12/17 12:00							
Matrix	WATER							
Sample #	BC 33							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Antimony (Sb)	0.188	0.020	ug/L	+/- 0.027	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.212	0.020	ug/L	+/- 0.052	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	47.1	0.020	ug/L	+/- 4.12	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0993	0.0050	ug/L	+/- 0.0135	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	0.13	0.10	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0321	0.0050	ug/L	+/- 0.0086	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.677	0.050	ug/L	+/- 0.082	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	21.4	1.0	ug/L	+/- 2.4	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0096	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	2.84	0.50	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	6.96	0.050	ug/L	+/- 0.702	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	1.43	0.050	ug/L	+/- 0.170	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	2.09	0.020	ug/L	+/- 0.188	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	8.4	2.0	ug/L	+/- 5.9	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	2.52	0.040	ug/L	+/- 0.337	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	3150	50	ug/L	+/- 467	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	366	0.050	ug/L	+/- 27.2	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	0.0023	0.0020	ug/L	+/- 0.0031	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	2.93	0.0020	ug/L	+/- 0.374	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.72	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	12.7	0.10	ug/L	+/- 2.70	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	86.7	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	33.3	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.742	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	1.61	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	64.7	3.0	mg/L	N/A	N/A	2019/12/24		9716719



Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7823 BC 33 Sampling Date 2019/12/17 12:00 Matrix WATER Sample # BC 33 MERCURY BY COLD VAPOR (WATER) Elements Dissolved Mercury (Hg) Total Mercury (Hg)	<0.0020 <0.0020	0.0020 0.0020	ug/L ug/L	N/A N/A	2019/12/23 2019/12/24	2019/12/23 2019/12/24	CJY CJY	9718547 9719547
XD7824 BC 05 Sampling Date 2019/12/17 12:30 Matrix WATER Sample # BC 05 RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) Calculated Parameters Filter and HNO3 Preservation Dissolved Hardness (CaCO ₃) Total Hardness (CaCO ₃) Nitrate (N) Total Total Kjeldahl Nitrogen (Calc) Misc. Inorganics Alkalinity (Total as CaCO ₃) Alkalinity (PP as CaCO ₃) Bicarbonate (HCO ₃) Carbonate (CO ₃) Hydroxide (OH) Strong Acid Dissoc. Cyanide (CN) Weak Acid Dissoc. Cyanide (CN) pH Total Suspended Solids Anions Dissolved Chloride (Cl) Dissolved Sulphate (SO ₄) Nutrients Total Ammonia (N) Nitrate plus Nitrite (N) Total Nitrogen (N) Total Phosphorus (P)	<0.0050 0.110 0.165 224 <0.50 273 <0.50 <0.50 <0.00050 <0.00050 8.15 <1.0 0.77 270(3) 0.25(7) 0.110 0.275 <0.015(2)	0.0050 0.020 0.020 0.50 0.50 0.020 0.020 0.50 0.50 0.00050 0.00050 N/A N/A N/A N/A N/A N/A 0.50 5.0 0.0050 0.020 0.020 0.015	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	N/A N/A N/A N/A N/A N/A N/A +/- 0.118 N/A +/- 0.77 N/A +/- 0.033 +/- <RDL +/- 0.033 N/A	N/A N/A N/A N/A N/A N/A N/A 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/30 2019/12/30 2019/12/23 2019/12/23 2019/12/27 2019/12/21 2019/12/27 2019/12/27	2019/12/21 2019/12/20 2019/12/24 2019/12/24 2019/12/21 2019/12/27 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/30 2019/12/30 2019/12/23 2019/12/23 2019/12/27 2019/12/21 2019/12/27 2019/12/27	MO5 WAY WAY WAY WAY WAY TMU TMU WAY WZ1 BB3 BB3 JLD MO5 MO5 JLD	9717726 9716259 9716270 9716375 9716440 9718523 9718523 9718523 9718523 9718523 9720727 9720728 9718519 9718445 9718824 9718824 9721807 9717725 9720058 9721399

(1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7824 BC 05								
Sampling Date	2019/12/17 12:30							
Matrix	WATER							
Sample #	BC 05							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Conductivity	920	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	674(2)	1.2	mg/L	+/- 23.3	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	7.00	0.50	ug/L	+/- 15.0	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.313	0.020	ug/L	+/- 0.037	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.350	0.020	ug/L	+/- 0.061	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	64.7	0.020	ug/L	+/- 5.65	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0784	0.0050	ug/L	+/- 0.0125	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	0.21	0.10	ug/L	+/- 0.23	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.106	0.0050	ug/L	+/- 0.0145	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.747	0.050	ug/L	+/- 0.136	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	26.9	1.0	ug/L	+/- 3.3	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	7.63	0.50	ug/L	+/- 0.65	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	39.4	0.050	ug/L	+/- 3.86	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	3.14	0.050	ug/L	+/- 0.398	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	3.66	0.020	ug/L	+/- 0.916	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	8.1	2.0	ug/L	+/- 5.8	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	1.85	0.040	ug/L	+/- 0.297	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	4320	50	ug/L	+/- 640	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	504	0.050	ug/L	+/- 37.5	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	4.37	0.0020	ug/L	+/- 0.557	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.62	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	21.8	0.10	ug/L	+/- 4.89	N/A	2019/12/23	VBA	9718917



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7824 BC 05								
Sampling Date	2019/12/17 12:30							
Matrix	WATER							
Sample #	BC 05							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Zirconium (Zr)	0.11	0.10	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	126	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	51.5	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	1.24	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	2.80	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	95.9	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	9.42	0.50	ug/L	+/- 1.00	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.359	0.020	ug/L	+/- 0.041	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.342	0.020	ug/L	+/- 0.060	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	64.7	0.020	ug/L	+/- 5.65	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0792	0.0050	ug/L	+/- 0.0108	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	0.12	0.10	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.118	0.0050	ug/L	+/- 0.0156	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	1.24	0.050	ug/L	+/- 0.140	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	39.2	1.0	ug/L	+/- 4.2	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0277	0.0050	ug/L	+/- 0.0061	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	7.48	0.50	ug/L	+/- 0.92	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	40.7	0.050	ug/L	+/- 3.99	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	2.92	0.050	ug/L	+/- 0.346	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	3.70	0.020	ug/L	+/- 0.331	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	15.5	2.0	ug/L	+/- 6.9	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	1.84	0.040	ug/L	+/- 0.246	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	4230	50	ug/L	+/- 626	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	515	0.050	ug/L	+/- 38.3	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	0.0021	0.0020	ug/L	+/- 0.0031	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	4.34	0.0020	ug/L	+/- 0.553	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7824 BC 05 Sampling Date 2019/12/17 12:30 Matrix WATER Sample # BC 05								
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Vanadium (V)	0.54	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	23.0	0.10	ug/L	+/- 4.87	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	124	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	49.0	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	1.48	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	2.87	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	92.4	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547
XD7825 BC 06 Sampling Date 2019/12/17 13:00 Matrix WATER Sample # BC 06								
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
Dissolved Hardness (CaCO3)	328	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	320	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	0.306	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.114	0.020	mg/L	N/A	N/A	2019/12/27		9716440
Misc. Inorganics								
Alkalinity (Total as CaCO3)	147	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	179	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	8.09	N/A	pH	+/- 0.117	N/A	2019/12/23	WAY	9718519



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7825 BC 06								
Sampling Date	2019/12/17 13:00							
Matrix	WATER							
Sample #	BC 06							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Total Suspended Solids	<1.0	1.0	mg/L	N/A	2019/12/23	2019/12/24	WZ1	9718445
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Dissolved Sulphate (SO4)	200	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Nutrients								
Total Ammonia (N)	0.10	0.0050	mg/L	+/- 0.013	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.306	0.020	mg/L	+/- 0.047	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.420	0.020	mg/L	+/- 0.045	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	635	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	426(2)	1.3	mg/L	+/- 14.7	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.06	0.50	ug/L	+/- 3.70	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.205	0.020	ug/L	+/- 0.029	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.249	0.020	ug/L	+/- 0.054	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	47.8	0.020	ug/L	+/- 4.18	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0821	0.0050	ug/L	+/- 0.0129	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0146	0.0050	ug/L	+/- 0.0079	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.576	0.050	ug/L	+/- 0.129	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	6.2	1.0	ug/L	+/- 1.8	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	2.82	0.50	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	3.03	0.050	ug/L	+/- 0.324	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	1.67	0.050	ug/L	+/- 0.217	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	1.56	0.020	ug/L	+/- 0.405	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	10.7	2.0	ug/L	+/- 6.1	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	2.32	0.040	ug/L	+/- 0.371	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
- (2) Detection limits raised due to insufficient sample volume.
- (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
- (4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
- (5) Dissolved greater than total. Reanalysis yields similar results.
- (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
- (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7825 BC 06								
Sampling Date	2019/12/17 13:00							
Matrix	WATER							
Sample #	BC 06							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Silicon (Si)	3410	50	ug/L	+/- 506	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	350	0.050	ug/L	+/- 26.1	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	0.0021	0.0020	ug/L	+/- 0.0031	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	2.88	0.0020	ug/L	+/- 0.367	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.69	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	7.74	0.10	ug/L	+/- 2.40	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	80.9	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	30.6	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.774	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	1.91	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	58.8	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	3.49	0.50	ug/L	+/- 0.52	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.204	0.020	ug/L	+/- 0.029	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.232	0.020	ug/L	+/- 0.053	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	47.6	0.020	ug/L	+/- 4.16	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0869	0.0050	ug/L	+/- 0.0118	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0204	0.0050	ug/L	+/- 0.0081	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.633	0.050	ug/L	+/- 0.078	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	12.8	1.0	ug/L	+/- 1.5	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0070	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	2.74	0.50	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	3.71	0.050	ug/L	+/- 0.389	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	1.50	0.050	ug/L	+/- 0.178	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	1.60	0.020	ug/L	+/- 0.146	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7825 BC 06 Sampling Date 2019/12/17 13:00 Matrix WATER Sample # BC 06 ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Total Metals by ICPMS								
Total Phosphorus (P)	11.9	2.0	ug/L	+/- 6.3	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	2.24	0.040	ug/L	+/- 0.300	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	3220	50	ug/L	+/- 477	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	339	0.050	ug/L	+/- 25.2	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	2.87	0.0020	ug/L	+/- 0.366	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.64	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	7.89	0.10	ug/L	+/- 1.68	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	78.6	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	29.9	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.748	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	1.77	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	58.9	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547
XD7826 BC 38 Sampling Date 2019/12/17 13:45 Matrix WATER Sample # BC 38 RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
Dissolved Hardness (CaCO3)	176	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	177	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	0.239	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.144	0.020	mg/L	N/A	N/A	2019/12/27		9716440

BUREAU
VERITASBV Labs Job #: B9A9106
Report Date: 2019/12/30Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7826 BC 38								
Sampling Date	2019/12/17 13:45							
Matrix	WATER							
Sample #	BC 38							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Misc. Inorganics								
Alkalinity (Total as CaCO3)	90.6	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	110	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	7.95	N/A	pH	+/- 0.115	N/A	2019/12/23	WAY	9718519
Total Suspended Solids	2.0	1.0	mg/L	+/- <RDL	2019/12/23	2019/12/24	WZ1	9718445
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Dissolved Sulphate (SO4)	97	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Nutrients								
Total Ammonia (N)	0.053	0.0050	mg/L	+/- 0.0071	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.239	0.020	mg/L	+/- 0.037	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.383	0.020	mg/L	+/- 0.042	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	359	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	227(2)	1.1	mg/L	+/- 7.9	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.41	0.50	ug/L	+/- 4.30	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	0.140	0.020	ug/L	+/- 0.024	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	0.406	0.020	ug/L	+/- 0.065	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	64.9	0.020	ug/L	+/- 5.67	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0234	0.0050	ug/L	+/- 0.0078	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0122	0.0050	ug/L	+/- 0.0079	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.282	0.050	ug/L	+/- 0.121	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7826 BC 38								
Sampling Date	2019/12/17 13:45							
Matrix	WATER							
Sample #	BC 38							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Iron (Fe)	2.3	1.0	ug/L	+/- 1.7	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	2.40	0.50	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	3.30	0.050	ug/L	+/- 0.350	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	0.650	0.050	ug/L	+/- 0.097	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	0.494	0.020	ug/L	+/- 0.157	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	2.8	2.0	ug/L	+/- 5.4	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	0.703	0.040	ug/L	+/- 0.119	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	2860	50	ug/L	+/- 424	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	297	0.050	ug/L	+/- 22.1	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	1.29	0.0020	ug/L	+/- 0.165	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.22	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	1.75	0.10	ug/L	+/- 1.72	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	46.6	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	14.5	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.479	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	2.36	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	27.5	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	2.67	0.50	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	0.154	0.020	ug/L	+/- 0.025	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	0.390	0.020	ug/L	+/- 0.064	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	64.9	0.020	ug/L	+/- 5.67	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0250	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7826 BC 38								
Sampling Date	2019/12/17 13:45							
Matrix	WATER							
Sample #	BC 38							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Cobalt (Co)	0.0122	0.0050	ug/L	+/- 0.0079	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.391	0.050	ug/L	+/- 0.055	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	5.6	1.0	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0096	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	2.55	0.50	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	3.65	0.050	ug/L	+/- 0.383	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	0.456	0.050	ug/L	+/- 0.056	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	0.543	0.020	ug/L	+/- 0.054	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	3.5	2.0	ug/L	+/- 5.5	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	0.732	0.040	ug/L	+/- 0.099	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	2980	50	ug/L	+/- 441	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	301	0.050	ug/L	+/- 22.4	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	<0.0020	0.0020	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	1.30	0.0020	ug/L	+/- 0.166	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	2.59	0.10	ug/L	+/- 0.57	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	47.3	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	14.3	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.489	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	2.36	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	28.5	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7827 BC 04								
Sampling Date	2019/12/17 14:00							
Matrix	WATER							
Sample #	BC 04							
RESULTS OF CHEMICAL ANALYSES OF WATER								
ANIONS								
Nitrite (N)	<0.0050	0.0050	mg/L	N/A	N/A	2019/12/21	MO5	9717726
Calculated Parameters								
Filter and HNO3 Preservation	FIELD		N/A	N/A	N/A	2019/12/20		ONSITE
Dissolved Hardness (CaCO3)	446	0.50	mg/L	N/A	N/A	2019/12/24		9716259
Total Hardness (CaCO3)	407	0.50	mg/L	N/A	N/A	2019/12/24		9716270
Nitrate (N)	0.103	0.020	mg/L	N/A	N/A	2019/12/21		9716375
Total Total Kjeldahl Nitrogen (Calc)	0.110	0.020	mg/L	N/A	N/A	2019/12/27		9716440
Misc. Inorganics								
Alkalinity (Total as CaCO3)	196	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Alkalinity (PP as CaCO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Bicarbonate (HCO3)	240	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Carbonate (CO3)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Hydroxide (OH)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	WAY	9718523
Strong Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720727
Weak Acid Dissoc. Cyanide (CN)	<0.00050	0.00050	mg/L	N/A	N/A	2019/12/30	TMU	9720728
pH	8.17	N/A	pH	+/- 0.118	N/A	2019/12/23	WAY	9718519
Total Suspended Solids	4.4	1.0	mg/L	+/- <RDL	2019/12/23	2019/12/24	WZ1	9718445
Anions								
Dissolved Chloride (Cl)	<0.50	0.50	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Dissolved Sulphate (SO4)	210(3)	5.0	mg/L	N/A	N/A	2019/12/23	BB3	9718824
Nutrients								
Total Ammonia (N)	0.028	0.0050	mg/L	+/- <RDL	N/A	2019/12/27	JLD	9721111
Nitrate plus Nitrite (N)	0.103	0.020	mg/L	+/- <RDL	N/A	2019/12/21	MO5	9717725
Total Nitrogen (N)	0.213	0.020	mg/L	+/- 0.029	N/A	2019/12/27	MO5	9720058
Total Phosphorus (P)	<0.015(2)	0.015	mg/L	N/A	2019/12/27	2019/12/27	JLD	9721399
Physical Properties								
Conductivity	789	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	549(2)	1.1	mg/L	+/- 19.0	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	2.17	0.50	ug/L	+/- 5.70	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	2.76	0.020	ug/L	+/- 0.259	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	3.07	0.020	ug/L	+/- 0.327	N/A	2019/12/23	VBA	9718917

- (1) RDL raised due to limited initial sample amount.
(2) Detection limits raised due to insufficient sample volume.
(3) Detection limits raised due to dilution to bring analyte within the calibrated range.
(4) Detection limits raised due to insufficient sample volume.
Sample was analyzed after holding time expired.
(5) Dissolved greater than total. Reanalysis yields similar results.
(6) Matrix spike exceeds acceptance limits due to probable matrix interference.
(7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7827 BC 04								
Sampling Date	2019/12/17 14:00							
Matrix	WATER							
Sample #	BC 04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Barium (Ba)	74.6	0.020	ug/L	+/- 6.51	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0576	0.0050	ug/L	+/- 0.0104	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.268	0.0050	ug/L	+/- 0.0312	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.316	0.050	ug/L	+/- 0.121	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	97.7	1.0	ug/L	+/- 9.9	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	10.5	0.50	ug/L	+/- 0.88	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	97.5	0.050	ug/L	+/- 9.51	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	9.63	0.050	ug/L	+/- 1.20	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	2.69	0.020	ug/L	+/- 0.679	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	4.8	2.0	ug/L	+/- 5.6	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	2.95	0.040	ug/L	+/- 0.469	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	3730	50	ug/L	+/- 553	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	715	0.050	ug/L	+/- 53.2	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	0.0097	0.0020	ug/L	+/- 0.0033	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	5.12	0.0020	ug/L	+/- 0.652	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	0.47	0.20	ug/L	+/- 0.40	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	8.79	0.10	ug/L	+/- 2.57	N/A	2019/12/23	VBA	9718917
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	107	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	43.4	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	1.85	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	2.23	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	78.1	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	58.6	0.50	ug/L	+/- 5.75	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7827 BC 04								
Sampling Date	2019/12/17 14:00							
Matrix	WATER							
Sample #	BC 04							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Antimony (Sb)	2.65	0.020	ug/L	+/- 0.249	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	5.50	0.020	ug/L	+/- 0.575	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	73.7	0.020	ug/L	+/- 6.44	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.146	0.0050	ug/L	+/- 0.0197	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	0.15	0.10	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.323	0.0050	ug/L	+/- 0.0371	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.386	0.050	ug/L	+/- 0.054	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	520	1.0	ug/L	+/- 55.7	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0890	0.0050	ug/L	+/- 0.0146	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	10.2	0.50	ug/L	+/- 1.20	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	101	0.050	ug/L	+/- 9.84	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	24.2	0.050	ug/L	+/- 2.86	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	2.70	0.020	ug/L	+/- 0.242	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	14.2	2.0	ug/L	+/- 6.6	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	2.71	0.040	ug/L	+/- 0.362	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	3530	50	ug/L	+/- 523	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	665	0.050	ug/L	+/- 49.5	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	0.0106	0.0020	ug/L	+/- 0.0033	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	1.72	0.50	ug/L	+/- 0.91	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	4.70	0.0020	ug/L	+/- 0.598	N/A	2019/12/24	VBA	9718922
Total Vanadium (V)	0.95	0.20	ug/L	+/- 0.40	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	9.85	0.10	ug/L	+/- 2.09	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	97.7	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	39.5	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	1.67	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	2.06	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	72.0	3.0	mg/L	N/A	N/A	2019/12/24		9716719



BV Labs Job #: B9A9106
 Report Date: 2019/12/30

Golden Predator Exploration
 Client Project #: Brewery Creek - Surface Water
 Site Location: Brewery Creek
 Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7827 BC 04 Sampling Date 2019/12/17 14:00 Matrix WATER Sample # BC 04 MERCURY BY COLD VAPOR (WATER) Elements Dissolved Mercury (Hg) Total Mercury (Hg)	<0.0020 <0.0020	0.0020 0.0020	ug/L ug/L	N/A N/A	2019/12/23 2019/12/24	2019/12/23 2019/12/24	CJY CJY	9718547 9719547
XD7828 BC 15 Sampling Date 2019/12/17 14:20 Matrix WATER Sample # BC 15 RESULTS OF CHEMICAL ANALYSES OF WATER ANIONS Nitrite (N) Calculated Parameters Filter and HNO3 Preservation Dissolved Hardness (CaCO3) Total Hardness (CaCO3) Nitrate (N) Total Total Kjeldahl Nitrogen (Calc) Misc. Inorganics Alkalinity (Total as CaCO3) Alkalinity (PP as CaCO3) Bicarbonate (HCO3) Carbonate (CO3) Hydroxide (OH) Strong Acid Dissoc. Cyanide (CN) Weak Acid Dissoc. Cyanide (CN) pH Total Suspended Solids Anions Dissolved Chloride (Cl) Dissolved Sulphate (SO4) Nutrients Total Ammonia (N) Nitrate plus Nitrite (N) Total Nitrogen (N) Total Phosphorus (P)	<0.0050 FIELD 591 575 0.062 0.140 134 <0.50 164 <0.50 <0.50 <0.00050 <0.00050 8.08 1.2 <0.50 440(3) 0.035 0.062 0.202 <0.015(2)	0.0050 0.50 0.50 0.020 0.020 0.50 0.50 0.00050 0.00050 N/A N/A N/A N/A 0.50 5.0 0.0050 0.020 0.020 0.015	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A	2019/12/21 2019/12/20 2019/12/24 2019/12/24 2019/12/21 2019/12/27 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/23 2019/12/30 2019/12/30 2019/12/23 2019/12/24 2019/12/23 2019/12/23 2019/12/27 2019/12/21 2019/12/27 2019/12/27	MO5 WAY WAY WAY WAY WAY TMU TMU WAY WZ1 BB3 BB3 JLD MO5 MO5 JLD	9717726 ONSITE 9716259 9716270 9716375 9716440 9718523 9718523 9718523 9718523 9718523 9720727 9720728 9718519 9718445 9718824 9718824 9721111 9717725 9720058 9721399

(1) RDL raised due to limited initial sample amount.
 (2) Detection limits raised due to insufficient sample volume.
 (3) Detection limits raised due to dilution to bring analyte within the calibrated range.
 (4) Detection limits raised due to insufficient sample volume.
 Sample was analyzed after holding time expired.
 (5) Dissolved greater than total. Reanalysis yields similar results.
 (6) Matrix spike exceeds acceptance limits due to probable matrix interference.
 (7) Matrix spike exceeds acceptance limits, probable matrix interference.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7828 BC 15								
Sampling Date	2019/12/17 14:20							
Matrix	WATER							
Sample #	BC 15							
RESULTS OF CHEMICAL ANALYSES OF WATER								
Physical Properties								
Conductivity	1040	1.0	uS/cm	N/A	N/A	2019/12/23	WAY	9718526
Physical Properties								
Total Dissolved Solids	808(2)	1.2	mg/L	+/- 27.9	2019/12/24	2019/12/24	AP1	9720665
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	1.78	0.50	ug/L	+/- 4.97	N/A	2019/12/23	VBA	9718917
Dissolved Antimony (Sb)	2.94	0.020	ug/L	+/- 0.276	N/A	2019/12/23	VBA	9718917
Dissolved Arsenic (As)	24.6	0.020	ug/L	+/- 2.53	N/A	2019/12/23	VBA	9718917
Dissolved Barium (Ba)	27.1	0.020	ug/L	+/- 2.37	N/A	2019/12/23	VBA	9718917
Dissolved Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cadmium (Cd)	0.0172	0.0050	ug/L	+/- 0.0075	N/A	2019/12/23	VBA	9718917
Dissolved Chromium (Cr)	0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Cobalt (Co)	0.0137	0.0050	ug/L	+/- 0.0079	N/A	2019/12/23	VBA	9718917
Dissolved Copper (Cu)	0.156	0.050	ug/L	+/- 0.119	N/A	2019/12/23	VBA	9718917
Dissolved Iron (Fe)	4.8	1.0	ug/L	+/- 1.8	N/A	2019/12/23	VBA	9718917
Dissolved Lead (Pb)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Lithium (Li)	1.40	0.50	ug/L	+/- <RDL	N/A	2019/12/23	VBA	9718917
Dissolved Manganese (Mn)	2.02	0.050	ug/L	+/- 0.230	N/A	2019/12/23	VBA	9718917
Dissolved Molybdenum (Mo)	1.03	0.050	ug/L	+/- 0.140	N/A	2019/12/23	VBA	9718917
Dissolved Nickel (Ni)	0.417	0.020	ug/L	+/- 0.141	N/A	2019/12/23	VBA	9718917
Dissolved Phosphorus (P)	<2.0	2.0	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Selenium (Se)	39.1	0.040	ug/L	+/- 6.16	N/A	2019/12/23	VBA	9718917
Dissolved Silicon (Si)	2400	50	ug/L	+/- 356	N/A	2019/12/23	VBA	9718917
Dissolved Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Strontium (Sr)	1190	0.050	ug/L	+/- 88.9	N/A	2019/12/23	VBA	9718917
Dissolved Thallium (Tl)	0.0400	0.0020	ug/L	+/- 0.0056	N/A	2019/12/23	VBA	9718917
Dissolved Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Uranium (U)	4.33	0.0020	ug/L	+/- 0.551	N/A	2019/12/23	VBA	9718917
Dissolved Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Zinc (Zn)	0.40	0.10	ug/L	+/- 1.67	N/A	2019/12/23	VBA	9718917



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7828 BC 15								
Sampling Date	2019/12/17 14:20							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Dissolved Metals by ICPMS								
Dissolved Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/23	VBA	9718917
Dissolved Calcium (Ca)	130	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Magnesium (Mg)	64.7	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Potassium (K)	0.894	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sodium (Na)	0.447	0.050	mg/L	N/A	N/A	2019/12/24		9716715
Dissolved Sulphur (S)	149	3.0	mg/L	N/A	N/A	2019/12/24		9716715
Total Metals by ICPMS								
Total Aluminum (Al)	4.48	0.50	ug/L	+/- 0.59	N/A	2019/12/24	VBA	9718922
Total Antimony (Sb)	2.97	0.020	ug/L	+/- 0.278	N/A	2019/12/24	VBA	9718922
Total Arsenic (As)	24.6	0.020	ug/L	+/- 2.54	N/A	2019/12/24	VBA	9718922
Total Barium (Ba)	27.6	0.020	ug/L	+/- 2.41	N/A	2019/12/24	VBA	9718922
Total Beryllium (Be)	<0.010	0.010	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Bismuth (Bi)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Boron (B)	<10	10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Cadmium (Cd)	0.0263	0.0050	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Chromium (Cr)	0.15	0.10	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Cobalt (Co)	0.0177	0.0050	ug/L	+/- 0.0080	N/A	2019/12/24	VBA	9718922
Total Copper (Cu)	0.471	0.050	ug/L	+/- 0.062	N/A	2019/12/24	VBA	9718922
Total Iron (Fe)	4.1	1.0	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Lead (Pb)	0.0198	0.0050	ug/L	+/- 0.0053	N/A	2019/12/24	VBA	9718922
Total Lithium (Li)	1.53	0.50	ug/L	+/- <RDL	N/A	2019/12/24	VBA	9718922
Total Manganese (Mn)	2.49	0.050	ug/L	+/- 0.273	N/A	2019/12/24	VBA	9718922
Total Molybdenum (Mo)	0.972	0.050	ug/L	+/- 0.116	N/A	2019/12/24	VBA	9718922
Total Nickel (Ni)	0.482	0.020	ug/L	+/- 0.049	N/A	2019/12/24	VBA	9718922
Total Phosphorus (P)	4.1	2.0	ug/L	+/- 5.5	N/A	2019/12/24	VBA	9718922
Total Selenium (Se)	37.9	0.040	ug/L	+/- 5.07	N/A	2019/12/24	VBA	9718922
Total Silicon (Si)	2290	50	ug/L	+/- 340	N/A	2019/12/24	VBA	9718922
Total Silver (Ag)	<0.0050	0.0050	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Strontium (Sr)	1200	0.050	ug/L	+/- 89.0	N/A	2019/12/24	VBA	9718922
Total Thallium (Tl)	0.0414	0.0020	ug/L	+/- 0.0057	N/A	2019/12/24	VBA	9718922
Total Tin (Sn)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Titanium (Ti)	<0.50	0.50	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Uranium (U)	4.28	0.0020	ug/L	+/- 0.545	N/A	2019/12/24	VBA	9718922



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

Sample Details/Parameters	Result	RDL	UNITS	MU	Extracted	Analyzed	By	Batch
XD7828 BC 15								
Sampling Date	2019/12/17 14:20							
Matrix	WATER							
Sample #	BC 15							
ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)								
Total Metals by ICPMS								
Total Vanadium (V)	<0.20	0.20	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Zinc (Zn)	1.88	0.10	ug/L	+/- 0.42	N/A	2019/12/24	VBA	9718922
Total Zirconium (Zr)	<0.10	0.10	ug/L	N/A	N/A	2019/12/24	VBA	9718922
Total Calcium (Ca)	125	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Magnesium (Mg)	63.8	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Potassium (K)	0.941	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sodium (Na)	0.490	0.050	mg/L	N/A	N/A	2019/12/24		9716719
Total Sulphur (S)	144	3.0	mg/L	N/A	N/A	2019/12/24		9716719
MERCURY BY COLD VAPOR (WATER)								
Elements								
Dissolved Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/23	2019/12/23	CJY	9718547
Total Mercury (Hg)	<0.0020	0.0020	ug/L	N/A	2019/12/24	2019/12/24	CJY	9719547



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
Package 2	1.7°C

Sample XD7820 [BC 34] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA. Sample was analyzed past method specified hold time for Total Dissolved Solids - Low Level.

Sample XD7821 [BC 35 R] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7822 [BC 35] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7823 [BC 33] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7824 [BC 05] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7825 [BC 06] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7826 [BC 38] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7827 [BC 04] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample XD7828 [BC 15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9717721	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/12/21		106	%	80 - 120
9717721	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/12/21	<0.020		mg/L	
9717722	MO5	Spiked Blank	Nitrite (N)	2019/12/21		105	%	80 - 120
9717722	MO5	Method Blank	Nitrite (N)	2019/12/21	<0.0050		mg/L	
9717725	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2019/12/21		NC	%	80 - 120
9717725	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2019/12/21		105	%	80 - 120
9717725	MO5	Method Blank	Nitrate plus Nitrite (N)	2019/12/21	<0.020		mg/L	
9717725	MO5	RPD	Nitrate plus Nitrite (N)	2019/12/21	0.94		%	25
9717726	MO5	Matrix Spike	Nitrite (N)	2019/12/21		96	%	80 - 120
9717726	MO5	Spiked Blank	Nitrite (N)	2019/12/21		105	%	80 - 120
9717726	MO5	Method Blank	Nitrite (N)	2019/12/21	<0.0050		mg/L	
9717726	MO5	RPD	Nitrite (N)	2019/12/21	NC		%	20
9718189	WZ1	Matrix Spike	Total Suspended Solids	2019/12/24		101	%	80 - 120
9718189	WZ1	Spiked Blank	Total Suspended Solids	2019/12/24		96	%	80 - 120
9718189	WZ1	Method Blank	Total Suspended Solids	2019/12/24	<1.0		mg/L	
9718189	WZ1	RPD	Total Suspended Solids	2019/12/24	NC		%	20
9718445	WZ1	Matrix Spike [XD7828-10]	Total Suspended Solids	2019/12/24		101	%	80 - 120
9718445	WZ1	Spiked Blank	Total Suspended Solids	2019/12/24		98	%	80 - 120
9718445	WZ1	Method Blank	Total Suspended Solids	2019/12/24	<1.0		mg/L	
9718445	WZ1	RPD [XD7827-10]	Total Suspended Solids	2019/12/24	9.5		%	20
9718519	WAY	Spiked Blank	pH	2019/12/23		101	%	97 - 103
9718519	WAY	RPD [XD7819-02]	pH	2019/12/23	0		%	N/A
9718523	WAY	Matrix Spike [XD7819-02]	Alkalinity (Total as CaCO3)	2019/12/23		98	%	80 - 120
9718523	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2019/12/23		96	%	80 - 120
9718523	WAY	Method Blank	Alkalinity (Total as CaCO3)	2019/12/23	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2019/12/23	<0.50		mg/L	
			Bicarbonate (HCO3)	2019/12/23	<0.50		mg/L	
			Carbonate (CO3)	2019/12/23	<0.50		mg/L	
			Hydroxide (OH)	2019/12/23	<0.50		mg/L	
9718523	WAY	RPD [XD7819-02]	Alkalinity (Total as CaCO3)	2019/12/23	NC		%	20
			Alkalinity (PP as CaCO3)	2019/12/23	NC		%	20
			Bicarbonate (HCO3)	2019/12/23	NC		%	20
			Carbonate (CO3)	2019/12/23	NC		%	20
			Hydroxide (OH)	2019/12/23	NC		%	20
9718526	WAY	Spiked Blank	Conductivity	2019/12/23		100	%	80 - 120
9718526	WAY	Method Blank	Conductivity	2019/12/23	<1.0		uS/cm	
9718526	WAY	RPD [XD7819-02]	Conductivity	2019/12/23	NC		%	20
9718547	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/12/23		63 (1)	%	80 - 120
9718547	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/12/23		100	%	80 - 120
9718547	CJY	Method Blank	Dissolved Mercury (Hg)	2019/12/23	<0.0020		ug/L	
9718547	CJY	RPD	Dissolved Mercury (Hg)	2019/12/23	NC		%	20
9718695	CJY	Matrix Spike	Total Mercury (Hg)	2019/12/23		92	%	80 - 120
9718695	CJY	Spiked Blank	Total Mercury (Hg)	2019/12/23		90	%	80 - 120
9718695	CJY	Method Blank	Total Mercury (Hg)	2019/12/23	<0.0020		ug/L	
9718695	CJY	RPD	Total Mercury (Hg)	2019/12/23	NC		%	20
9718822	BB3	Matrix Spike	Dissolved Chloride (Cl)	2019/12/23		95	%	80 - 120
			Dissolved Sulphate (SO4)	2019/12/23		NC	%	80 - 120
9718822	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/12/23		103	%	80 - 120
			Dissolved Sulphate (SO4)	2019/12/23		99	%	80 - 120
9718822	BB3	Method Blank	Dissolved Chloride (Cl)	2019/12/23	<0.50		mg/L	
			Dissolved Sulphate (SO4)	2019/12/23	0.70, RDL=0.50		mg/L	
9718822	BB3	RPD [XD7819-02]	Dissolved Chloride (Cl)	2019/12/23	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits			
9718822	BB3	RPD	Dissolved Sulphate (SO4)	2019/12/23	NC		%	20			
			Dissolved Chloride (Cl)	2019/12/23	4.8		%	20			
			Dissolved Sulphate (SO4)	2019/12/23	3.4		%	20			
9718824	BB3	Matrix Spike	Dissolved Chloride (Cl)	2019/12/23		103	%	80 - 120			
			Dissolved Sulphate (SO4)	2019/12/23		NC	%	80 - 120			
9718824	BB3	Spiked Blank	Dissolved Chloride (Cl)	2019/12/23		98	%	80 - 120			
			Dissolved Sulphate (SO4)	2019/12/23		93	%	80 - 120			
9718824	BB3	Method Blank	Dissolved Chloride (Cl)	2019/12/23	<0.50		mg/L				
			Dissolved Sulphate (SO4)	2019/12/23	0.81, RDL=0.50		mg/L				
9718824	BB3	RPD	Dissolved Chloride (Cl)	2019/12/23	2.9		%	20			
			Dissolved Sulphate (SO4)	2019/12/23	1.4		%	20			
9718917	VBA	Matrix Spike	Dissolved Aluminum (Al)	2019/12/23		104	%	80 - 120			
			Dissolved Antimony (Sb)	2019/12/23		101	%	80 - 120			
			Dissolved Arsenic (As)	2019/12/23		104	%	80 - 120			
			Dissolved Barium (Ba)	2019/12/23		100	%	80 - 120			
			Dissolved Beryllium (Be)	2019/12/23		98	%	80 - 120			
			Dissolved Bismuth (Bi)	2019/12/23		97	%	80 - 120			
			Dissolved Boron (B)	2019/12/23		98	%	80 - 120			
			Dissolved Cadmium (Cd)	2019/12/23		99	%	80 - 120			
			Dissolved Chromium (Cr)	2019/12/23		96	%	80 - 120			
			Dissolved Cobalt (Co)	2019/12/23		97	%	80 - 120			
			Dissolved Copper (Cu)	2019/12/23		92	%	80 - 120			
			Dissolved Iron (Fe)	2019/12/23		104	%	80 - 120			
			Dissolved Lead (Pb)	2019/12/23		101	%	80 - 120			
			Dissolved Lithium (Li)	2019/12/23		104	%	80 - 120			
			Dissolved Manganese (Mn)	2019/12/23		99	%	80 - 120			
			Dissolved Molybdenum (Mo)	2019/12/23		103	%	80 - 120			
			Dissolved Nickel (Ni)	2019/12/23		96	%	80 - 120			
			Dissolved Phosphorus (P)	2019/12/23		104	%	80 - 120			
			Dissolved Selenium (Se)	2019/12/23		103	%	80 - 120			
			Dissolved Silicon (Si)	2019/12/23		108	%	80 - 120			
			Dissolved Silver (Ag)	2019/12/23		94	%	80 - 120			
			Dissolved Strontium (Sr)	2019/12/23		NC	%	80 - 120			
			Dissolved Thallium (Tl)	2019/12/23		100	%	80 - 120			
			Dissolved Tin (Sn)	2019/12/23		98	%	80 - 120			
			Dissolved Titanium (Ti)	2019/12/23		99	%	80 - 120			
			Dissolved Uranium (U)	2019/12/23		106	%	80 - 120			
			Dissolved Vanadium (V)	2019/12/23		99	%	80 - 120			
			Dissolved Zinc (Zn)	2019/12/23		101	%	80 - 120			
			Dissolved Zirconium (Zr)	2019/12/23		102	%	80 - 120			
			9718917	VBA	Spiked Blank	Dissolved Aluminum (Al)	2019/12/23		107	%	80 - 120
						Dissolved Antimony (Sb)	2019/12/23		102	%	80 - 120
						Dissolved Arsenic (As)	2019/12/23		102	%	80 - 120
						Dissolved Barium (Ba)	2019/12/23		106	%	80 - 120
Dissolved Beryllium (Be)	2019/12/23					100	%	80 - 120			
Dissolved Bismuth (Bi)	2019/12/23					105	%	80 - 120			
Dissolved Boron (B)	2019/12/23					102	%	80 - 120			
Dissolved Cadmium (Cd)	2019/12/23					102	%	80 - 120			
Dissolved Chromium (Cr)	2019/12/23					100	%	80 - 120			
Dissolved Cobalt (Co)	2019/12/23					100	%	80 - 120			
Dissolved Copper (Cu)	2019/12/23		97	%	80 - 120						
Dissolved Iron (Fe)	2019/12/23		106	%	80 - 120						



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Lead (Pb)	2019/12/23		107	%	80 - 120
				Dissolved Lithium (Li)	2019/12/23		111	%	80 - 120
				Dissolved Manganese (Mn)	2019/12/23		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2019/12/23		104	%	80 - 120
				Dissolved Nickel (Ni)	2019/12/23		100	%	80 - 120
				Dissolved Phosphorus (P)	2019/12/23		100	%	80 - 120
				Dissolved Selenium (Se)	2019/12/23		102	%	80 - 120
				Dissolved Silicon (Si)	2019/12/23		107	%	80 - 120
				Dissolved Silver (Ag)	2019/12/23		99	%	80 - 120
				Dissolved Strontium (Sr)	2019/12/23		102	%	80 - 120
				Dissolved Thallium (Tl)	2019/12/23		104	%	80 - 120
				Dissolved Tin (Sn)	2019/12/23		101	%	80 - 120
				Dissolved Titanium (Ti)	2019/12/23		103	%	80 - 120
				Dissolved Uranium (U)	2019/12/23		110	%	80 - 120
				Dissolved Vanadium (V)	2019/12/23		100	%	80 - 120
				Dissolved Zinc (Zn)	2019/12/23		104	%	80 - 120
				Dissolved Zirconium (Zr)	2019/12/23		99	%	80 - 120
9718917	VBA		Method Blank	Dissolved Aluminum (Al)	2019/12/23	<0.50		ug/L	
				Dissolved Antimony (Sb)	2019/12/23	<0.020		ug/L	
				Dissolved Arsenic (As)	2019/12/23	<0.020		ug/L	
				Dissolved Barium (Ba)	2019/12/23	<0.020		ug/L	
				Dissolved Beryllium (Be)	2019/12/23	<0.010		ug/L	
				Dissolved Bismuth (Bi)	2019/12/23	<0.0050		ug/L	
				Dissolved Boron (B)	2019/12/23	<10		ug/L	
				Dissolved Cadmium (Cd)	2019/12/23	<0.0050		ug/L	
				Dissolved Chromium (Cr)	2019/12/23	<0.10		ug/L	
				Dissolved Cobalt (Co)	2019/12/23	<0.0050		ug/L	
				Dissolved Copper (Cu)	2019/12/23	<0.050		ug/L	
				Dissolved Iron (Fe)	2019/12/23	<1.0		ug/L	
				Dissolved Lead (Pb)	2019/12/23	<0.0050		ug/L	
				Dissolved Lithium (Li)	2019/12/23	<0.50		ug/L	
				Dissolved Manganese (Mn)	2019/12/23	<0.050		ug/L	
				Dissolved Molybdenum (Mo)	2019/12/23	<0.050		ug/L	
				Dissolved Nickel (Ni)	2019/12/23	<0.020		ug/L	
				Dissolved Phosphorus (P)	2019/12/23	<2.0		ug/L	
				Dissolved Selenium (Se)	2019/12/23	<0.040		ug/L	
				Dissolved Silicon (Si)	2019/12/23	<50		ug/L	
				Dissolved Silver (Ag)	2019/12/23	<0.0050		ug/L	
				Dissolved Strontium (Sr)	2019/12/23	<0.050		ug/L	
				Dissolved Thallium (Tl)	2019/12/23	<0.0020		ug/L	
				Dissolved Tin (Sn)	2019/12/23	<0.20		ug/L	
				Dissolved Titanium (Ti)	2019/12/23	<0.50		ug/L	
				Dissolved Uranium (U)	2019/12/23	<0.0020		ug/L	
				Dissolved Vanadium (V)	2019/12/23	<0.20		ug/L	
				Dissolved Zinc (Zn)	2019/12/23	<0.10		ug/L	
				Dissolved Zirconium (Zr)	2019/12/23	<0.10		ug/L	
9718917	VBA		RPD [XD7819-04]	Dissolved Aluminum (Al)	2019/12/23	NC		%	20
				Dissolved Antimony (Sb)	2019/12/23	NC		%	20
				Dissolved Arsenic (As)	2019/12/23	NC		%	20
				Dissolved Barium (Ba)	2019/12/23	NC		%	20
				Dissolved Beryllium (Be)	2019/12/23	NC		%	20
				Dissolved Bismuth (Bi)	2019/12/23	NC		%	20
				Dissolved Boron (B)	2019/12/23	NC		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Cadmium (Cd)	2019/12/23	NC		%	20
				Dissolved Chromium (Cr)	2019/12/23	NC		%	20
				Dissolved Cobalt (Co)	2019/12/23	NC		%	20
				Dissolved Copper (Cu)	2019/12/23	NC		%	20
				Dissolved Iron (Fe)	2019/12/23	NC		%	20
				Dissolved Lead (Pb)	2019/12/23	NC		%	20
				Dissolved Lithium (Li)	2019/12/23	NC		%	20
				Dissolved Manganese (Mn)	2019/12/23	NC		%	20
				Dissolved Molybdenum (Mo)	2019/12/23	NC		%	20
				Dissolved Nickel (Ni)	2019/12/23	NC		%	20
				Dissolved Phosphorus (P)	2019/12/23	NC		%	20
				Dissolved Selenium (Se)	2019/12/23	NC		%	20
				Dissolved Silicon (Si)	2019/12/23	NC		%	20
				Dissolved Silver (Ag)	2019/12/23	NC		%	20
				Dissolved Strontium (Sr)	2019/12/23	NC		%	20
				Dissolved Thallium (Tl)	2019/12/23	NC		%	20
				Dissolved Tin (Sn)	2019/12/23	NC		%	20
				Dissolved Titanium (Ti)	2019/12/23	NC		%	20
				Dissolved Uranium (U)	2019/12/23	NC		%	20
				Dissolved Vanadium (V)	2019/12/23	NC		%	20
				Dissolved Zinc (Zn)	2019/12/23	NC		%	20
				Dissolved Zirconium (Zr)	2019/12/23	NC		%	20
9718917	VBA	RPD		Dissolved Aluminum (Al)	2019/12/23	NC		%	20
				Dissolved Antimony (Sb)	2019/12/23	NC		%	20
				Dissolved Arsenic (As)	2019/12/23	NC		%	20
				Dissolved Barium (Ba)	2019/12/23	NC		%	20
				Dissolved Beryllium (Be)	2019/12/23	NC		%	20
				Dissolved Bismuth (Bi)	2019/12/23	NC		%	20
				Dissolved Boron (B)	2019/12/23	NC		%	20
				Dissolved Cadmium (Cd)	2019/12/23	NC		%	20
				Dissolved Chromium (Cr)	2019/12/23	NC		%	20
				Dissolved Cobalt (Co)	2019/12/23	NC		%	20
				Dissolved Copper (Cu)	2019/12/23	NC		%	20
				Dissolved Iron (Fe)	2019/12/23	NC		%	20
				Dissolved Lead (Pb)	2019/12/23	NC		%	20
				Dissolved Lithium (Li)	2019/12/23	NC		%	20
				Dissolved Manganese (Mn)	2019/12/23	NC		%	20
				Dissolved Molybdenum (Mo)	2019/12/23	NC		%	20
				Dissolved Nickel (Ni)	2019/12/23	NC		%	20
				Dissolved Phosphorus (P)	2019/12/23	NC		%	20
				Dissolved Selenium (Se)	2019/12/23	NC		%	20
				Dissolved Silicon (Si)	2019/12/23	NC		%	20
				Dissolved Silver (Ag)	2019/12/23	NC		%	20
				Dissolved Strontium (Sr)	2019/12/23	NC		%	20
				Dissolved Thallium (Tl)	2019/12/23	NC		%	20
				Dissolved Tin (Sn)	2019/12/23	NC		%	20
				Dissolved Titanium (Ti)	2019/12/23	NC		%	20
				Dissolved Uranium (U)	2019/12/23	NC		%	20
				Dissolved Vanadium (V)	2019/12/23	NC		%	20
				Dissolved Zinc (Zn)	2019/12/23	NC		%	20
				Dissolved Zirconium (Zr)	2019/12/23	NC		%	20
				Dissolved Aluminum (Al)	2019/12/23	NC		%	20
				Dissolved Antimony (Sb)	2019/12/23	NC		%	20



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Arsenic (As)	2019/12/23	NC		%	20
			Dissolved Barium (Ba)	2019/12/23	NC		%	20
			Dissolved Beryllium (Be)	2019/12/23	NC		%	20
			Dissolved Bismuth (Bi)	2019/12/23	NC		%	20
			Dissolved Boron (B)	2019/12/23	NC		%	20
			Dissolved Cadmium (Cd)	2019/12/23	NC		%	20
			Dissolved Chromium (Cr)	2019/12/23	NC		%	20
			Dissolved Cobalt (Co)	2019/12/23	NC		%	20
			Dissolved Copper (Cu)	2019/12/23	NC		%	20
			Dissolved Iron (Fe)	2019/12/23	NC		%	20
			Dissolved Lead (Pb)	2019/12/23	NC		%	20
			Dissolved Lithium (Li)	2019/12/23	NC		%	20
			Dissolved Manganese (Mn)	2019/12/23	NC		%	20
			Dissolved Molybdenum (Mo)	2019/12/23	NC		%	20
			Dissolved Nickel (Ni)	2019/12/23	NC		%	20
			Dissolved Phosphorus (P)	2019/12/23	NC		%	20
			Dissolved Selenium (Se)	2019/12/23	NC		%	20
			Dissolved Silicon (Si)	2019/12/23	NC		%	20
			Dissolved Silver (Ag)	2019/12/23	NC		%	20
			Dissolved Strontium (Sr)	2019/12/23	NC		%	20
			Dissolved Thallium (Tl)	2019/12/23	NC		%	20
			Dissolved Tin (Sn)	2019/12/23	NC		%	20
			Dissolved Titanium (Ti)	2019/12/23	NC		%	20
			Dissolved Uranium (U)	2019/12/23	NC		%	20
			Dissolved Vanadium (V)	2019/12/23	NC		%	20
			Dissolved Zinc (Zn)	2019/12/23	NC		%	20
			Dissolved Zirconium (Zr)	2019/12/23	NC		%	20
			Dissolved Aluminum (Al)	2019/12/23	4.0		%	20
			Dissolved Antimony (Sb)	2019/12/23	NC		%	20
			Dissolved Arsenic (As)	2019/12/23	2.2		%	20
			Dissolved Barium (Ba)	2019/12/23	2.0		%	20
			Dissolved Beryllium (Be)	2019/12/23	NC		%	20
			Dissolved Bismuth (Bi)	2019/12/23	NC		%	20
			Dissolved Boron (B)	2019/12/23	3.6		%	20
			Dissolved Cadmium (Cd)	2019/12/23	NC		%	20
			Dissolved Chromium (Cr)	2019/12/23	NC		%	20
			Dissolved Cobalt (Co)	2019/12/23	NC		%	20
			Dissolved Copper (Cu)	2019/12/23	0.88		%	20
			Dissolved Iron (Fe)	2019/12/23	NC		%	20
			Dissolved Lead (Pb)	2019/12/23	1.9		%	20
			Dissolved Lithium (Li)	2019/12/23	0.48		%	20
			Dissolved Manganese (Mn)	2019/12/23	3.7		%	20
			Dissolved Molybdenum (Mo)	2019/12/23	0.87		%	20
			Dissolved Nickel (Ni)	2019/12/23	17		%	20
			Dissolved Phosphorus (P)	2019/12/23	NC		%	20
			Dissolved Selenium (Se)	2019/12/23	NC		%	20
			Dissolved Silicon (Si)	2019/12/23	0.43		%	20
			Dissolved Silver (Ag)	2019/12/23	NC		%	20
			Dissolved Strontium (Sr)	2019/12/23	2.8		%	20
			Dissolved Thallium (Tl)	2019/12/23	NC		%	20
			Dissolved Tin (Sn)	2019/12/23	NC		%	20
			Dissolved Titanium (Ti)	2019/12/23	NC		%	20
			Dissolved Uranium (U)	2019/12/23	3.3		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9718922	VBA	Matrix Spike [XD7820-03]	Dissolved Vanadium (V)	2019/12/23	3.7		%	20
			Dissolved Zinc (Zn)	2019/12/23	2.5		%	20
			Dissolved Zirconium (Zr)	2019/12/23	NC		%	20
			Total Aluminum (Al)	2019/12/24		104	%	80 - 120
			Total Antimony (Sb)	2019/12/24		100	%	80 - 120
			Total Arsenic (As)	2019/12/24		102	%	80 - 120
			Total Barium (Ba)	2019/12/24		97	%	80 - 120
			Total Beryllium (Be)	2019/12/24		95	%	80 - 120
			Total Bismuth (Bi)	2019/12/24		98	%	80 - 120
			Total Boron (B)	2019/12/24		101	%	80 - 120
			Total Cadmium (Cd)	2019/12/24		97	%	80 - 120
			Total Chromium (Cr)	2019/12/24		95	%	80 - 120
			Total Cobalt (Co)	2019/12/24		93	%	80 - 120
			Total Copper (Cu)	2019/12/24		89	%	80 - 120
			Total Iron (Fe)	2019/12/24		101	%	80 - 120
			Total Lead (Pb)	2019/12/24		103	%	80 - 120
			Total Lithium (Li)	2019/12/24		108	%	80 - 120
			Total Manganese (Mn)	2019/12/24		97	%	80 - 120
			Total Molybdenum (Mo)	2019/12/24		106	%	80 - 120
			Total Nickel (Ni)	2019/12/24		92	%	80 - 120
			Total Phosphorus (P)	2019/12/24		105	%	80 - 120
			Total Selenium (Se)	2019/12/24		104	%	80 - 120
			Total Silicon (Si)	2019/12/24		102	%	80 - 120
			Total Silver (Ag)	2019/12/24		93	%	80 - 120
			Total Strontium (Sr)	2019/12/24		NC	%	80 - 120
			Total Thallium (Tl)	2019/12/24		103	%	80 - 120
			Total Tin (Sn)	2019/12/24		98	%	80 - 120
			Total Titanium (Ti)	2019/12/24		101	%	80 - 120
			Total Uranium (U)	2019/12/24		107	%	80 - 120
			Total Vanadium (V)	2019/12/24		100	%	80 - 120
			Total Zinc (Zn)	2019/12/24		94	%	80 - 120
			Total Zirconium (Zr)	2019/12/24		104	%	80 - 120
9718922	VBA	Spiked Blank	Total Aluminum (Al)	2019/12/24		107	%	80 - 120
			Total Antimony (Sb)	2019/12/24		101	%	80 - 120
			Total Arsenic (As)	2019/12/24		102	%	80 - 120
			Total Barium (Ba)	2019/12/24		106	%	80 - 120
			Total Beryllium (Be)	2019/12/24		101	%	80 - 120
			Total Bismuth (Bi)	2019/12/24		107	%	80 - 120
			Total Boron (B)	2019/12/24		104	%	80 - 120
			Total Cadmium (Cd)	2019/12/24		100	%	80 - 120
			Total Chromium (Cr)	2019/12/24		100	%	80 - 120
			Total Cobalt (Co)	2019/12/24		100	%	80 - 120
			Total Copper (Cu)	2019/12/24		97	%	80 - 120
			Total Iron (Fe)	2019/12/24		105	%	80 - 120
			Total Lead (Pb)	2019/12/24		109	%	80 - 120
			Total Lithium (Li)	2019/12/24		114	%	80 - 120
			Total Manganese (Mn)	2019/12/24		104	%	80 - 120
			Total Molybdenum (Mo)	2019/12/24		102	%	80 - 120
			Total Nickel (Ni)	2019/12/24		101	%	80 - 120
			Total Phosphorus (P)	2019/12/24		102	%	80 - 120
Total Selenium (Se)	2019/12/24		103	%	80 - 120			
Total Silicon (Si)	2019/12/24		109	%	80 - 120			
Total Silver (Ag)	2019/12/24		97	%	80 - 120			



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits		
9718922	VBA	Method Blank	Total Strontium (Sr)	2019/12/24		104	%	80 - 120		
			Total Thallium (Tl)	2019/12/24		108	%	80 - 120		
			Total Tin (Sn)	2019/12/24		100	%	80 - 120		
			Total Titanium (Ti)	2019/12/24		102	%	80 - 120		
			Total Uranium (U)	2019/12/24		110	%	80 - 120		
			Total Vanadium (V)	2019/12/24		101	%	80 - 120		
			Total Zinc (Zn)	2019/12/24		105	%	80 - 120		
			Total Zirconium (Zr)	2019/12/24		100	%	80 - 120		
			Total Aluminum (Al)	2019/12/24		<0.50			ug/L	
			Total Antimony (Sb)	2019/12/24		<0.020			ug/L	
			Total Arsenic (As)	2019/12/24		<0.020			ug/L	
			Total Barium (Ba)	2019/12/24		<0.020			ug/L	
			Total Beryllium (Be)	2019/12/24		<0.010			ug/L	
			Total Bismuth (Bi)	2019/12/24		<0.0050			ug/L	
			Total Boron (B)	2019/12/24		<1.0			ug/L	
			Total Cadmium (Cd)	2019/12/24		<0.0050			ug/L	
			Total Chromium (Cr)	2019/12/24		<0.10			ug/L	
			Total Cobalt (Co)	2019/12/24		<0.0050			ug/L	
			Total Copper (Cu)	2019/12/24		<0.050			ug/L	
			Total Iron (Fe)	2019/12/24		<1.0			ug/L	
			Total Lead (Pb)	2019/12/24		<0.0050			ug/L	
			Total Lithium (Li)	2019/12/24		<0.50			ug/L	
			Total Manganese (Mn)	2019/12/24		<0.050			ug/L	
			Total Molybdenum (Mo)	2019/12/24		<0.050			ug/L	
			Total Nickel (Ni)	2019/12/24		<0.020			ug/L	
			Total Phosphorus (P)	2019/12/24		<2.0			ug/L	
			Total Selenium (Se)	2019/12/24		<0.040			ug/L	
			Total Silicon (Si)	2019/12/24		<50			ug/L	
Total Silver (Ag)	2019/12/24		<0.0050			ug/L				
Total Strontium (Sr)	2019/12/24		<0.050			ug/L				
Total Thallium (Tl)	2019/12/24		<0.0020			ug/L				
Total Tin (Sn)	2019/12/24		<0.20			ug/L				
Total Titanium (Ti)	2019/12/24		<0.50			ug/L				
Total Uranium (U)	2019/12/24		<0.0020			ug/L				
Total Vanadium (V)	2019/12/24		<0.20			ug/L				
Total Zinc (Zn)	2019/12/24		<0.10			ug/L				
Total Zirconium (Zr)	2019/12/24		<0.10			ug/L				
9718922	VBA	RPD [XD7819-03]	Total Aluminum (Al)	2019/12/24	NC		%	20		
			Total Antimony (Sb)	2019/12/24	NC		%	20		
			Total Arsenic (As)	2019/12/24	NC		%	20		
			Total Barium (Ba)	2019/12/24	NC		%	20		
			Total Beryllium (Be)	2019/12/24	NC		%	20		
			Total Bismuth (Bi)	2019/12/24	NC		%	20		
			Total Boron (B)	2019/12/24	NC		%	20		
			Total Cadmium (Cd)	2019/12/24	NC		%	20		
			Total Chromium (Cr)	2019/12/24	NC		%	20		
			Total Cobalt (Co)	2019/12/24	NC		%	20		
			Total Copper (Cu)	2019/12/24	NC		%	20		
			Total Iron (Fe)	2019/12/24	NC		%	20		
			Total Lead (Pb)	2019/12/24	NC		%	20		
			Total Lithium (Li)	2019/12/24	NC		%	20		
			Total Manganese (Mn)	2019/12/24	NC		%	20		
			Total Molybdenum (Mo)	2019/12/24	NC		%	20		



BUREAU
VERITAS

BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Nickel (Ni)	2019/12/24	NC		%	20
			Total Phosphorus (P)	2019/12/24	NC		%	20
			Total Selenium (Se)	2019/12/24	NC		%	20
			Total Silicon (Si)	2019/12/24	NC		%	20
			Total Silver (Ag)	2019/12/24	NC		%	20
			Total Strontium (Sr)	2019/12/24	NC		%	20
			Total Thallium (Tl)	2019/12/24	NC		%	20
			Total Tin (Sn)	2019/12/24	NC		%	20
			Total Titanium (Ti)	2019/12/24	NC		%	20
			Total Uranium (U)	2019/12/24	NC		%	20
			Total Vanadium (V)	2019/12/24	NC		%	20
			Total Zinc (Zn)	2019/12/24	NC		%	20
			Total Zirconium (Zr)	2019/12/24	NC		%	20
9718922	VBA	RPD [XD7820-03]	Total Aluminum (Al)	2019/12/24	0.34		%	20
			Total Antimony (Sb)	2019/12/24	9.7		%	20
			Total Arsenic (As)	2019/12/24	2.5		%	20
			Total Barium (Ba)	2019/12/24	7.8		%	20
			Total Beryllium (Be)	2019/12/24	NC		%	20
			Total Bismuth (Bi)	2019/12/24	NC		%	20
			Total Boron (B)	2019/12/24	NC		%	20
			Total Cadmium (Cd)	2019/12/24	5.8		%	20
			Total Chromium (Cr)	2019/12/24	NC		%	20
			Total Cobalt (Co)	2019/12/24	8.7		%	20
			Total Copper (Cu)	2019/12/24	5.6		%	20
			Total Iron (Fe)	2019/12/24	2.8		%	20
			Total Lead (Pb)	2019/12/24	NC		%	20
			Total Lithium (Li)	2019/12/24	6.4		%	20
			Total Manganese (Mn)	2019/12/24	1.2		%	20
			Total Molybdenum (Mo)	2019/12/24	8.7		%	20
			Total Nickel (Ni)	2019/12/24	0.31		%	20
			Total Phosphorus (P)	2019/12/24	20		%	20
			Total Selenium (Se)	2019/12/24	1.1		%	20
			Total Silicon (Si)	2019/12/24	1.1		%	20
			Total Silver (Ag)	2019/12/24	NC		%	20
			Total Strontium (Sr)	2019/12/24	2.4		%	20
			Total Thallium (Tl)	2019/12/24	8.7		%	20
			Total Tin (Sn)	2019/12/24	NC		%	20
			Total Titanium (Ti)	2019/12/24	NC		%	20
			Total Uranium (U)	2019/12/24	7.1		%	20
			Total Vanadium (V)	2019/12/24	7.5		%	20
			Total Zinc (Zn)	2019/12/24	0.29		%	20
			Total Zirconium (Zr)	2019/12/24	NC		%	20
9718922	VBA	RPD	Total Aluminum (Al)	2019/12/24	NC		%	20
			Total Antimony (Sb)	2019/12/24	NC		%	20
			Total Arsenic (As)	2019/12/24	NC		%	20
			Total Barium (Ba)	2019/12/24	NC		%	20
			Total Beryllium (Be)	2019/12/24	NC		%	20
			Total Bismuth (Bi)	2019/12/24	NC		%	20
			Total Boron (B)	2019/12/24	NC		%	20
			Total Cadmium (Cd)	2019/12/24	NC		%	20
			Total Chromium (Cr)	2019/12/24	NC		%	20
			Total Cobalt (Co)	2019/12/24	NC		%	20
			Total Copper (Cu)	2019/12/24	NC		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2019/12/24	NC		%	20
			Total Lead (Pb)	2019/12/24	NC		%	20
			Total Lithium (Li)	2019/12/24	NC		%	20
			Total Manganese (Mn)	2019/12/24	NC		%	20
			Total Molybdenum (Mo)	2019/12/24	NC		%	20
			Total Nickel (Ni)	2019/12/24	NC		%	20
			Total Phosphorus (P)	2019/12/24	NC		%	20
			Total Selenium (Se)	2019/12/24	NC		%	20
			Total Silicon (Si)	2019/12/24	NC		%	20
			Total Silver (Ag)	2019/12/24	NC		%	20
			Total Strontium (Sr)	2019/12/24	NC		%	20
			Total Thallium (Tl)	2019/12/24	NC		%	20
			Total Tin (Sn)	2019/12/24	NC		%	20
			Total Titanium (Ti)	2019/12/24	NC		%	20
			Total Uranium (U)	2019/12/24	NC		%	20
			Total Vanadium (V)	2019/12/24	NC		%	20
			Total Zinc (Zn)	2019/12/24	NC		%	20
			Total Zirconium (Zr)	2019/12/24	NC		%	20
			Total Aluminum (Al)	2019/12/24	NC		%	20
			Total Antimony (Sb)	2019/12/24	NC		%	20
			Total Arsenic (As)	2019/12/24	NC		%	20
			Total Barium (Ba)	2019/12/24	NC		%	20
			Total Beryllium (Be)	2019/12/24	NC		%	20
			Total Bismuth (Bi)	2019/12/24	NC		%	20
			Total Boron (B)	2019/12/24	NC		%	20
			Total Cadmium (Cd)	2019/12/24	NC		%	20
			Total Chromium (Cr)	2019/12/24	NC		%	20
			Total Cobalt (Co)	2019/12/24	NC		%	20
			Total Copper (Cu)	2019/12/24	NC		%	20
			Total Iron (Fe)	2019/12/24	NC		%	20
			Total Lead (Pb)	2019/12/24	NC		%	20
			Total Lithium (Li)	2019/12/24	NC		%	20
			Total Manganese (Mn)	2019/12/24	NC		%	20
			Total Molybdenum (Mo)	2019/12/24	NC		%	20
			Total Nickel (Ni)	2019/12/24	NC		%	20
			Total Phosphorus (P)	2019/12/24	NC		%	20
			Total Selenium (Se)	2019/12/24	NC		%	20
			Total Silicon (Si)	2019/12/24	NC		%	20
			Total Silver (Ag)	2019/12/24	NC		%	20
			Total Strontium (Sr)	2019/12/24	NC		%	20
			Total Thallium (Tl)	2019/12/24	NC		%	20
			Total Tin (Sn)	2019/12/24	NC		%	20
			Total Titanium (Ti)	2019/12/24	NC		%	20
			Total Uranium (U)	2019/12/24	NC		%	20
			Total Vanadium (V)	2019/12/24	NC		%	20
			Total Zinc (Zn)	2019/12/24	NC		%	20
			Total Zirconium (Zr)	2019/12/24	NC		%	20
9719547	CJY	Matrix Spike [XD7822-04]	Total Mercury (Hg)	2019/12/24		73 (1)	%	80 - 120
9719547	CJY	Spiked Blank	Total Mercury (Hg)	2019/12/24		88	%	80 - 120
9719547	CJY	Method Blank	Total Mercury (Hg)	2019/12/24	<0.0020		ug/L	
9719547	CJY	RPD [XD7821-04]	Total Mercury (Hg)	2019/12/24	NC		%	20
9719558	CJY	Matrix Spike	Dissolved Mercury (Hg)	2019/12/24		83	%	80 - 120
9719558	CJY	Spiked Blank	Dissolved Mercury (Hg)	2019/12/24		94	%	80 - 120



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9719558	CJY	Method Blank	Dissolved Mercury (Hg)	2019/12/24	<0.0020		ug/L	
9719558	CJY	RPD	Dissolved Mercury (Hg)	2019/12/24	NC		%	20
9720058	MO5	Spiked Blank	Total Nitrogen (N)	2019/12/27		98	%	80 - 120
9720058	MO5	Method Blank	Total Nitrogen (N)	2019/12/27	<0.020		mg/L	
9720058	MO5	RPD	Total Nitrogen (N)	2019/12/27	2.8		%	20
9720065	MO5	Matrix Spike [XD7820-05]	Total Nitrogen (N)	2019/12/27		NC	%	80 - 120
9720065	MO5	Spiked Blank	Total Nitrogen (N)	2019/12/27		99	%	80 - 120
9720065	MO5	Method Blank	Total Nitrogen (N)	2019/12/27	<0.020		mg/L	
9720065	MO5	RPD [XD7820-05]	Total Nitrogen (N)	2019/12/27	5.2		%	20
9720111	WZ1	Matrix Spike	Total Suspended Solids	2019/12/27		97	%	80 - 120
9720111	WZ1	Spiked Blank	Total Suspended Solids	2019/12/27		100	%	80 - 120
9720111	WZ1	Method Blank	Total Suspended Solids	2019/12/27	<1.0		mg/L	
9720111	WZ1	RPD	Total Suspended Solids	2019/12/27	NC		%	20
9720665	AP1	Spiked Blank	Total Dissolved Solids	2019/12/24		96	%	80 - 120
9720665	AP1	Method Blank	Total Dissolved Solids	2019/12/24	<1.0		mg/L	
9720727	TMU	Matrix Spike	Strong Acid Dissoc. Cyanide (CN)	2019/12/30		109	%	80 - 120
9720727	TMU	Spiked Blank	Strong Acid Dissoc. Cyanide (CN)	2019/12/30		105	%	80 - 120
9720727	TMU	Method Blank	Strong Acid Dissoc. Cyanide (CN)	2019/12/30	<0.00050		mg/L	
9720727	TMU	RPD	Strong Acid Dissoc. Cyanide (CN)	2019/12/30	NC		%	20
9720728	TMU	Matrix Spike	Weak Acid Dissoc. Cyanide (CN)	2019/12/30		103	%	80 - 120
9720728	TMU	Spiked Blank	Weak Acid Dissoc. Cyanide (CN)	2019/12/30		103	%	80 - 120
9720728	TMU	Method Blank	Weak Acid Dissoc. Cyanide (CN)	2019/12/30	<0.00050		mg/L	
9720728	TMU	RPD	Weak Acid Dissoc. Cyanide (CN)	2019/12/30	NC		%	20
9721111	JLD	Matrix Spike [XD7826-05]	Total Ammonia (N)	2019/12/27		91	%	80 - 120
9721111	JLD	Spiked Blank	Total Ammonia (N)	2019/12/27		96	%	80 - 120
9721111	JLD	Method Blank	Total Ammonia (N)	2019/12/27	<0.0050		mg/L	
9721111	JLD	RPD [XD7826-05]	Total Ammonia (N)	2019/12/27	0.28		%	20
9721399	JLD	Matrix Spike	Total Phosphorus (P)	2019/12/30		NC	%	80 - 120
9721399	JLD	QC Standard	Total Phosphorus (P)	2019/12/27		96	%	80 - 120
9721399	JLD	Spiked Blank	Total Phosphorus (P)	2019/12/27		98	%	80 - 120
9721399	JLD	Method Blank	Total Phosphorus (P)	2019/12/27	<0.0030		mg/L	
9721399	JLD	RPD	Total Phosphorus (P)	2019/12/30	6.1 (2)		%	20
9721807	JLD	Matrix Spike [XD7824-05]	Total Ammonia (N)	2019/12/27		73 (1)	%	80 - 120
9721807	JLD	Spiked Blank	Total Ammonia (N)	2019/12/27		101	%	80 - 120
9721807	JLD	Method Blank	Total Ammonia (N)	2019/12/27	<0.0050		mg/L	
9721807	JLD	RPD [XD7824-05]	Total Ammonia (N)	2019/12/27	0.15		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Detection limits raised due to dilution to bring analyte within the calibrated range.



BV Labs Job #: B9A9106
Report Date: 2019/12/30

Golden Predator Exploration
Client Project #: Brewery Creek - Surface Water
Site Location: Brewery Creek
Sampler Initials: SN

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Spécialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.