ATTACHMENT - 4

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 13:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-6	**Basis:**	NA
Lab Code:	K1805697-005		

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND U	ug/L	4.0	1	07/02/18 13:20	06/19/18	
Antimony	6020A	**18.7**	ug/L	0.050	1	07/02/18 13:20	06/19/18	
Arsenic	6020A	**276**	ug/L	0.50	1	07/02/18 13:20	06/19/18	
Barium	6020A	**34.2**	ug/L	0.050	1	07/02/18 13:20	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 16:18	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Calcium	6010C	**43200**	ug/L	21	1	06/28/18 16:18	06/19/18	
Chromium	6020A	**0.27**	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Cobalt	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Copper	6020A	**0.48**	ug/L	0.10	1	07/02/18 13:20	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 16:18	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Magnesium	6010C	**10000**	ug/L	5.3	1	06/28/18 16:18	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 16:18	06/19/18	
Molybdenum	6020A	**3.81**	ug/L	0.10	1	07/02/18 13:20	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 16:18	06/19/18	
Potassium	6010C	**1120**	ug/L	420	1	06/28/18 16:18	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 13:20	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Sodium	6010C	**3850**	ug/L	210	1	06/28/18 16:18	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Zinc	6020A	**2.7**	ug/L	2.0	1	07/02/18 13:20	06/19/18	

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 13:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-6	**Basis:**	NA
Lab Code:	K1805697-005		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**5.0**		ug/L	4.0	1	07/02/18 12:49	06/19/18	
Antimony	6020A	**18.6**		ug/L	0.050	1	07/02/18 12:49	06/19/18	
Arsenic	6020A	**278**		ug/L	0.50	1	07/02/18 12:49	06/19/18	
Barium	6020A	**34.3**		ug/L	0.050	1	07/02/18 12:49	06/19/18	
Beryllium	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 15:45	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Calcium	6010C	**42900**		ug/L	21	1	06/28/18 15:45	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Cobalt	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Copper	6020A	**0.16**		ug/L	0.10	1	07/02/18 12:49	06/19/18	
Iron	6010C	ND	U	ug/L	21	1	06/28/18 15:45	06/19/18	
Lead	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Magnesium	6010C	**9860**		ug/L	5.3	1	06/28/18 15:45	06/19/18	
Manganese	6010C	ND	U	ug/L	1.1	1	06/28/18 15:45	06/19/18	
Molybdenum	6020A	**3.97**		ug/L	0.10	1	07/02/18 12:49	06/19/18	
Nickel	6020A	ND	U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Phosphorus	6010C	ND	U	ug/L	42	1	06/28/18 15:45	06/19/18	
Potassium	6010C	**1110**		ug/L	420	1	06/28/18 15:45	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 12:49	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Sodium	6010C	**3790**		ug/L	210	1	06/28/18 15:45	06/19/18	
Thallium	6020A	ND	U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Zinc	6020A	**2.0**		ug/L	2.0	1	07/02/18 12:49	06/19/18	

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Superset Reference:

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/11-13/18
Sample Matrix:	Water	**Date Received:**	06/15/18

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-T-49	K1805697-001	0.5	1	06/18/18	06/19/18	9.6	
YP-T-40	K1805697-002	0.5	1	06/18/18	06/19/18	1.4	
YP-B-03	K1805697-003	0.5	1	06/18/18	06/19/18	ND	
YP-HP-51	K1805697-004	0.5	1	06/18/18	06/19/18	9.1	
YP-AS-6	K1805697-005	0.5	1	06/18/18	06/19/18	1.7	
YP-AS-3	K1805697-006	0.5	1	06/18/18	06/19/18	4.2	
YP-AS-7	K1805697-007	0.5	1	06/18/18	06/19/18	18.8	
YP-AS-4-DS	K1805697-008	0.5	1	06/18/18	06/19/18	5.6	
YP-AS-1-DS	K1805697-009	0.5	1	06/18/18	06/19/18	95.5	
YP-AS-1-US	K1805697-010	0.5	1	06/18/18	06/19/18	97	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	

Exhibit 16 - Photos of the Bonanza Adit Seep

“The Bonanza adit seep (YP-AS-1) originates on the north side of FS 1883 approximately halfway between the upper (YP-T-8A) and middle (YP-T-7) Sugar Creek sites. The hillside has been excavated across its face by legacy exploration activities (Mitchell 2000) and the adit opening is not visible. The seep originates as a small pond on a bench approximately 75 feet uphill of FS 1883...The seep flows at a low volume year-round out of the pond, downhill, across the road, and onto the floodplain of Sugar Creek but has not been observed flowing into Sugar Creek via visible surface water flow.” (Surface Water Quality Baseline Study, pg. 4-119)

Figure 16A. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 1. Photo caption reads, “YP-AS-1, Bonanza Tunnel adit. Looking east and downstream at source with worked hillside visible in upper left, June 2012.”

Figure 16B. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 12. Photo caption reads, “YP-AS-1, Bonanza adit seep. Looking southwest at seep infiltrating into the subsurface on floodplain of Sugar Creek (in background, flows downstream to right), May 2012.”

Figure 16C. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, August 2012 Site Photos, page 12. Photo caption reads, “YP-AS-1, Bonanza adit seep. Looking south at seep-fed riparian area (center) with no flow into Sugar Creek (flows downstream to right). May 2013.”

Figure 16D. Photo of the Bonanza Adit Seep (YP-AS-1) flowing across the FS road and onto the floodplain of Sugar Creek, from the Surface Water Quality Baseline Study, Appendix G, June 2013 Site Photos, page 1. Photo caption reads, “YP-AS-1, Bonanza adit seep. Looking south and downstream toward Sugar Creek (background, flows downstream to right). June 2013.”

Exhibit 17 - Water Quality Data from the Bonanza Adit Seep Source

Table 17A. Summary statistics of data collected from the Bonanza Tunnel Adit Seep (YP-AS-1) (Surface Water Quality Baseline Study, Appendix E, pages 3-8). Data was collected from May, 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)											
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
Bonanza Adit Seep (YP-AS-1)											
Minimum	0.0	9.8	94.9	112.0	29.5	41.6	0.0	53.1	0.0	2.7	0.0
Maximum	79.8	1300	354.0	911.0	89.4	2190	496.0	30700	337.0	2910	3800
Average	6.8	203.7	203.9	246.2	54.6	279.5	60.8	3615	35.7	274.0	647.3
Median	0.0	52.2	191.0	195.5	51.1	94.1	24.6	674.5	8.0	24.7	105.5
# Samples	18	18	18	18	18	18	18	18	18	18	18

YP-AS-1

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-1	5	2012	8.6E-03	- -	0	- -	0.254	- -	6.8	- -	7.5	- -	8.9	- -	73	- -	107	- -	334	- -	< 2.0	U
YP-AS-1	6	2012	2.3E-03	- -	NM	- -	0.292	- -	6.6	- -	7.4	- -	11.7	- -	12	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	7	2012	1.3E-03	- -	NM	- -	0.365	- -	5.3	- -	7.3	- -	16.1	- -	24	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	8	2012	7.0E-04	- -	0	- -	0.366	- -	6.3	- -	7.4	- -	10.2	- -	9.8	- -	214	- -	1300	- -	< 2.0	UJ
YP-AS-1	9	2012	4.4E-04	- -	NM	- -	0.370	- -	6.6	- -	7.3	- -	9.3	- -	31	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	10	2012	5.6E-04	- -	NM	- -	0.371	- -	6.0	- -	7.7	- -	4.4	- -	53	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	11	2012	1.3E-03	- -	0	- -	0.351	- -	7.7	- -	7.4	- -	4.7	- -	14	- -	149	- -	10.4	- -	< 2.0	U
YP-AS-1	5	2013	3.4E-03	- -	0	- -	0.286	- -	6.1	- -	7.1	- -	15.5	- -	5.6	- -	117	- -	144	- -	9	- -
YP-AS-1	6	2013	0.1	- -	NM	- -	0.330	- -	5.6	- -	7.3	- -	12.8	- -	2.1	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	7	2013	0.1	- -	NM	- -	0.370	- -	4.9	- -	7.1	- -	13.7	- -	45.6	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	8	2013	5.9E-04	- -	0	- -	0.388	- -	5.2	- -	7.3	- -	14.1	- -	40.5	- -	175	- -	25.8	- -	< 2.0	U
YP-AS-1	9	2013	5.6E-04	- -	NM	- -	0.390	- -	5.5	- -	7.3	- -	11.1	- -	105	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	10	2013	1.1E-02	- -	NM	- -	0.234	- -	7.8	- -	7.4	- -	4.3	- -	20	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	11	2013	2.2E-03	- -	0	- -	0.333	- -	7.7	- -	7.4	- -	3.0	- -	18	- -	139	- -	18.8	- -	< 2.0	U
YP-AS-1	12	2013	5.8E-04	- -	NM	- -	0.387	- -	8.8	- -	7.1	- -	0.4	- -	189	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	1	2014	6.8E-04	- -	NM	- -	0.329	- -	10.2	- -	7.7	- -	0.1	- -	140	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	2	2014	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	3	2014	2.7E-02	- -	NM	- -	0.165	- -	9.6	- -	7.5	- -	3.4	- -	42	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	5	2014	5.3E-03	- -	0	- -	0.223	- -	7.2	- -	7.4	- -	9.1	- -	64	- -	103	- -	51.4	- -	< 2.0	U
YP-AS-1	6	2014	3.0E-03	- -	NM	- -	0.320	- -	5.9	- -	7.1	- -	8.5	- -	13	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	7	2014	5.5E-04	- -	NM	- -	0.377	- -	5.0	- -	6.8	- -	14.4	- -	24	- -	NM	- -	NM	- -	NM	- -
YP-AS-1	8	2014	2.9E-04	- -	0	- -	0.394	- -	4.3	- -	6.9	- -	14.3	- -	22	- -	188	- -	53	- -	2.5	- -
YP-AS-1	11	2014	1.8E-03	- -	0	- -	0.343	- -	5.6	- -	7.2	- -	4.8	- -	1.8	- -	149	- -	9.8	- -	3.7	- -
YP-AS-1	2	2015	4.8E-03	- -	0	- -	0.231	- -	9.5	- -	7.4	- -	1.6	- -	33	- -	82	- -	507	- -	79.8	- -
YP-AS-1	5	2015	1.1E-03	- -	0	- -	0.316	- -	5.7	- -	7.2	- -	10.0	- -	6.4	- -	142	- -	41.2	- -	5.6	- -
YP-AS-1	8	2015	NA	- -	10	- -	0.453	- -	7.1	- -	7.1	- -	24.9	- -	63	- -	225	- -	307	- -	10.4	- -
YP-AS-1	11	2015	NA	- -	0	- -	0.349	- -	6.4	- -	7.6	- -	1.4	- -	55	- -	135	- -	361	- -	2.2	- -
YP-AS-1	2	2016	1.8E-03	- -	0	- -	0.257	- -	7.2	- -	7.3	- -	2.1	- -	55	- -	133	- -	333	- -	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U	not detected
UJ	not detected, estimated
J+	estimated with possible high bias
J	estimated
J-	estimated with possible low bias
R	datum rejected
RM	measured but rejected
--	no flag
< 0.002	not detected at the method reporting limit of 0.002 mg/L

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	152	- -	143	- -	8.1	- -	292	- -	54.1	- -	95.4	J+	66.2	J+	0.15	- -	< 0.02	U	107	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	251	- -	216	- -	54.4	J	2190	- -	44.5	J	303	- -	85.9	- -	0.7	- -	< 0.02	U	214	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	354	- -	347	- -	0.26	- -	48.1	- -	37.9	- -	74.4	- -	69.9	- -	< 0.02	U	< 0.02	U	149	- -	< 50.0	U	< 50.0	U
< 0.050	U	190	- -	198	- -	0.55	- -	83.5	- -	72	- -	77.9	- -	76.1	- -	0.03	- -	< 0.02	U	117	- -	21.1	J-	20.2	J-
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	237	- -	239	- -	22.3	- -	140	- -	48.2	- -	94.7	- -	93	- -	< 0.02	U	< 0.02	U	175	- -	< 40.0	UJ	< 40.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	349	- -	354	- -	0.27	- -	48.7	- -	43.4	- -	71.2	- -	71.5	- -	< 0.02	U	< 0.02	U	139	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	144	- -	148	- -	0.492	- -	87.4	- -	85.4	- -	56.8	- -	56.3	- -	0.02	- -	< 0.02	U	103	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	129	- -	129	- -	1.9	- -	93.1	- -	47.9	- -	96.8	- -	92.1	- -	0.03	J+	< 0.02	U	188	- -	36.1	J+	22	J+
< 0.050	U	264	- -	265	- -	0.9	- -	41.6	- -	30	- -	74.1	- -	72.4	- -	< 0.02	U	< 0.02	U	149	- -	< 20.0	U	< 20.0	U
< 0.050	U	181	- -	184	- -	1.7	- -	120	- -	79.4	- -	57.1	- -	45.3	- -	0.15	- -	< 0.02	U	82	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	201	- -	200	- -	0.65	- -	69.2	- -	54	- -	79.2	- -	76.7	- -	< 0.02	U	< 0.02	U	142	- -	< 20.0	U	< 20.0	U
< 0.05	U	235	- -	150	- -	143	- -	711	- -	89.4	- -	248	- -	139	- -	0.24	- -	< 0.02	U	225	- -	32	J+	26.6	J+
< 0.05	U	911	- -	310	- -	33.1	- -	82.4	- -	29.5	- -	98.1	- -	73.4	- -	0.2	- -	< 0.02	U	135	- -	< 20	U	< 20	U
< 0.05	U	316	- -	281	- -	30.5	- -	646	- -	33.8	- -	140	- -	65.7	- -	0.18	- -	< 0.02	U	133	- -	< 20	U	< 20	U

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	30400	- -	30400	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	1.24	J+	0.08	J+	1	- -	0.4	J	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.06	J+	< 0.02	U	48600	- -	45400	- -	< 90	U	0.55	- -	0.5	J+	0.3	J+	9.47	- -	0.22	J+	2.9	- -	0.3	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	41200	- -	41700	- -	< 9.0	U	1.07	- -	< 0.2	U	< 0.2	U	0.06	J+	< 0.02	U	0.2	- -	0.2	- -	0.0079	- -
< 0.02	U	< 0.02	U	33500	- -	34100	- -	< 9.0	U	0.42	- -	0.6	J+	0.4	J+	0.09	J+	0.03	J+	0.4	J+	0.4	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	46400	- -	45100	- -	< 9.0	U	0.47	- -	< 0.2	U	< 0.2	U	0.27	J+	0.17	J+	0.1	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	39900	- -	40400	- -	< 15	U	0.67	- -	< 0.2	U	< 0.2	U	0.02	J+	< 0.02	U	0.3	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	27700	- -	27200	- -	< 15	U	0.49	- -	< 0.2	U	< 0.2	U	0.05	J+	0.03	J+	0.4	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	47200	- -	46400	- -	< 15	U	0.67	- -	< 0.2	U	< 0.2	U	0.35	J+	0.13	J+	0.3	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	40200	- -	41400	- -	< 15	U	1.17	- -	0.3	J+	< 0.2	U	0.08	- -	0.06	- -	0.3	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	23300	- -	22200	- -	< 15	U	0.57	- -	< 0.2	U	< 0.2	U	0.31	J+	0.06	J+	0.7	J+	0.5	J+	< 0.0047	U
< 0.02	U	< 0.02	U	39400	- -	38600	- -	< 15	U	0.43	- -	< 0.2	U	< 0.2	U	0.13	J+	0.05	J+	0.4	J+	0.5	J+	< 0.0047	U
0.02	- -	< 0.02	U	54300	- -	52700	- -	< 15	U	0.97	- -	0.7	- -	< 0.2	U	1.27	- -	0.64	- -	1.6	- -	0.3	- -	< 0.0047	U
0.14	J+	< 0.02	U	46000	- -	41200	- -	< 15	U	0.73	- -	0.3	J+	< 0.2	U	0.36	J+	0.19	J+	5.2	- -	0.5	J+	< 0.0047	U
0.02	- -	< 0.02	U	38300	- -	38700	- -	< 15	U	0.53	- -	< 0.2	U	< 0.2	U	2.44	- -	0.09	- -	1.2	- -	0.8	- -	< 0.0047	U

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	116	- -	3530	- -	24.8	- -	0.75	J+	< 0.02	U	9650	- -	9850	- -	253	- -	7.2	- -	1360	- -	24.5	- -	1.25	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	186	- -	30700	- -	< 20.0	UJ	2.75	- -	< 0.02	U	15800	- -	15100	- -	2910	- -	90.2	J-	3800	J	12.6	J	2.48	J
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	164	- -	136	- -	< 20.0	U	< 0.02	U	< 0.02	U	14800	- -	14800	- -	15.7	J-	< 5.0	UJ	26.6	- -	7.5	- -	< 0.1	U
< 0.40	U	128	- -	252	- -	< 20.0	U	0.11	- -	< 0.02	U	10700	- -	10900	- -	18.2	- -	3.2	J+	142	- -	14.7	- -	0.22	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	176	- -	1470	- -	37.5	- -	0.05	J+	< 0.02	U	14600	- -	14500	- -	79.5	- -	56.6	- -	36.3	- -	6.3	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	155	- -	53.1	- -	< 20.0	U	0.02	J+	< 0.02	U	13400	- -	13500	- -	2.7	J+	< 1.0	U	48.3	- -	16.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	106	- -	132	- -	< 20.0	U	0.1	J+	< 0.02	U	8940	J	8680	J	5.3	- -	1.7	J+	98.3	- -	21.3	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	184	- -	738	- -	< 20.0	U	0.12	J+	< 0.02	U	16000	- -	16200	- -	134	- -	57.5	- -	109	- -	10.9	- -	0.6	- -
< 0.20	U	156	- -	190	- -	< 20.0	U	< 0.02	U	< 0.02	U	13500	- -	13500	- -	10.5	- -	3.6	- -	23.4	- -	7.6	- -	< 0.1	U
< 0.20	U	87	- -	1120	- -	132	- -	0.58	- -	0.06	J+	7000	- -	6650	- -	72.2	J-	8.8	J-	1050	- -	111	- -	1.1	- -
< 0.20	U	149	- -	303	- -	< 20.0	U	0.1	J+	< 0.02	U	12200	- -	13100	- -	25.8	- -	4.5	J-	104	- -	16.6	- -	0.2	- -
< 0.2	U	220	- -	12600	- -	496	- -	1.24	J+	0.05	- -	20400	- -	19900	- -	390	- -	337	- -	3400	- -	24.1	- -	14.6	- -
0.21	- -	183	- -	1780	- -	121	- -	2.87	- -	< 0.02	U	16600	- -	16300	- -	23.5	- -	16.4	- -	724	- -	3	- -	7.2	- -
< 0.2	U	150	- -	10100	- -	24.4	- -	0.73	- -	< 0.02	U	13200	- -	13200	- -	714	- -	2.8	- -	541	- -	9.4	- -	3.4	- -

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
1.93	- -	1.92	- -	0.9	J+	0.4	J+	< 0.050	U	0.47	- -	0.47	- -	150	J+	< 20.0	U	1820	- -	1610	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.67	- -	2.36	- -	4.9	J+	0.7	J+	< 0.050	U	1.16	- -	1.16	- -	1030	- -	20.8	J	3330	- -	2300	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.13	J+	3.03	J+	0.2	J+	0.3	J+	< 0.050	U	0.56	- -	0.56	- -	< 20.0	UJ	< 20.0	UJ	2290	- -	2280	- -	< 1.0	U	< 1.0	U
2.58	- -	2.49	- -	0.42	J+	0.38	J+	< 0.050	U	0.44	- -	0.44	- -	< 40.0	U	< 40.0	U	2060	- -	2040	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.29	- -	3.13	- -	0.33	J+	0.26	J+	< 0.050	U	< 0.40	U	< 0.40	U	76.1	J+	< 40.0	U	2190	- -	2130	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.11	- -	2.93	- -	0.23	J+	0.27	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1820	- -	1840	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.76	- -	1.76	- -	< 0.2	U	0.2	J+	< 0.050	U	0.43	- -	0.43	- -	< 40.0	UJ	< 40.0	UJ	1530	- -	1400	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.01	- -	1.91	- -	0.9	J+	0.7	J+	< 0.050	U	0.7	J+	0.7	J+	46.4	J+	< 40.0	U	2310	- -	2300	- -	< 1.0	U	< 1.0	U
2.39	- -	2.31	- -	0.6	J+	0.5	J+	< 0.050	U	0.8	J-	0.79	J-	< 40.0	U	< 40.0	U	2050	- -	2060	- -	< 1.0	U	< 1.0	U
1.55	- -	1.7	- -	0.4	J+	< 0.2	U	< 0.050	U	0.49	J+	0.49	J+	74.5	- -	< 40.0	U	1870	- -	1560	- -	< 1.0	U	< 1.0	U
2.45	- -	2.49	- -	0.6	J+	0.6	J+	< 0.050	U	< 0.45	U	< 0.40	U	< 40.0	U	< 40.0	U	2030	- -	2100	- -	< 1.0	U	< 1.0	U
3.42	J+	3.59	J+	2.1	- -	1	- -	< 0.05	U	2.41	- -	2.4	- -	316	- -	< 42.6	U	4010	- -	3640	- -	< 1	U	< 1	U
4.46	- -	3.09	- -	5.6	- -	1.9	J+	< 0.05	U	2.47	J+	2.47	J+	465	- -	< 40	U	2430	- -	1940	- -	< 1	UJ	< 1	UJ
2.66	- -	2.6	- -	1.6	- -	0.6	- -	< 0.05	U	1.01	- -	1.01	- -	402	- -	< 40	U	2210	- -	1930	- -	< 1	U	< 1	U

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.020	U	< 0.020	U	4400	- -	4460	- -	168	- -	112	- -	17.9	- -	0.04	J+	< 0.02	U	0.4	- -	< 0.2	U	3.5	J+	0.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.06	J+	< 0.02	U	8040	- -	8010	- -	213	- -	60	J	24.7	- -	0.07	J+	< 0.02	U	1.5	- -	< 0.2	U	16.6	- -	0.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	7330	- -	7380	- -	182	- -	< 5.0	U	30.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	5010	- -	5280	- -	163	- -	5.5	- -	20.3	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	1.2	J+	1.2	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	8080	- -	8040	- -	216	- -	5	- -	27.1	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.7	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	6110	- -	6180	- -	184	- -	< 5.0	U	28.8	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1	J+	0.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	4160	- -	3950	- -	139	- -	16.5	J	17.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	8410	- -	8570	- -	202	- -	12.5	- -	19.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.1	J+	< 0.5	U
< 0.02	U	< 0.02	U	6110	- -	6160	- -	191	J	< 5.0	U	29.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	3120	- -	3140	- -	148	- -	10	- -	15.1	- -	< 0.02	U	< 0.02	U	0.3	- -	< 0.2	U	2.1	J+	0.7	J+
< 0.02	U	< 0.02	U	5510	- -	6000	- -	181	- -	20	- -	22.3	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.7	J+	< 0.5	U
< 0.02	U	< 0.02	U	9770	- -	9530	- -	253	- -	82	- -	12.8	- -	0.03	- -	< 0.02	U	1.5	- -	< 0.2	U	8.3	- -	0.7	J+
< 0.02	U	< 0.02	U	8390	- -	8170	- -	204	- -	70	- -	43.9	- -	0.07	- -	< 0.02	U	0.4	- -	< 0.2	U	29.1	- -	2.2	J+
< 0.02	U	< 0.02	U	6190	- -	6120	- -	162	- -	384	- -	27.2	- -	0.03	- -	< 0.02	U	0.5	- -	< 0.2	U	6.7	- -	1	- -

Anatek Labs, Inc.

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Client:	NEZ PERCE TRIBE WATER RESOURCE DIV.	**Batch #:**	180618002
Address:	PO BOX 365	**Project Name:**	MG WQS - 062018
	LAPWAI, ID 83540		
Attn:	KEN CLARK		

Analytical Results Report

Sample Number	180618002-001	**Sampling Date**	6/13/2018	**Date/Time Received**	6/14/2018 3:45 PM
Client Sample ID	YP-AS-1-S	**Sampling Time**	12:30 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0845	mg/L	0.01	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Antimony	0.112	mg/L	0.001	6/27/2018 6:11:00 PM	HSW	EPA 200.8	
Arsenic	0.0982	mg/L	0.001	6/27/2018 6:11:00 PM	HSW	EPA 200.8	
Cyanide	ND	mg/L	0.01	6/15/2018 2:00:00 PM	RPU	EPA 335.4	
Dissolved Aluminum	ND	mg/L	0.00358	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Dissolved Antimony	0.0949	mg/L	0.001	6/29/2018 12:22:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	0.0604	mg/L	0.001	6/29/2018 12:22:00 PM	HSW	EPA 200.8	
Dissolved Iron	0.140	mg/L	0.01	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Dissolved Manganese	0.0134	mg/L	0.01	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Calcium	36.9	mg CaCO3/L	0.1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Hardness	138	mg CaCO3/L	1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Magnesium	11.1	mg CaCO3/L	0.1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Iron	0.503	mg/L	0.02	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Manganese	0.0152	mg/L	0.01	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Mercury-Trace	0.0300	ug/L	0.0005	6/21/2018 11:51:00 AM	SDR	EPA 1631e	
NO3/N+NO2/N	0.0169	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	J
TSS	2.21	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	E10
TKN	0.630	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	0.647	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	
Total P	0.0515	mg/L	0.01	6/21/2018 1:15:00 PM	RPU	SM4500PF	

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 13:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-1	**Basis:**	NA
Lab Code:	K1805697-012		

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND U	ug/L	4.0	1	07/02/18 17:38	06/19/18	
Antimony	6020A	**120**	ug/L	0.050	1	07/02/18 17:38	06/19/18	
Arsenic	6020A	**66.7**	ug/L	0.50	1	07/02/18 17:38	06/19/18	
Barium	6020A	**82.0**	ug/L	0.050	1	07/02/18 17:38	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 17:39	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Calcium	6010C	**36500**	ug/L	21	1	06/28/18 17:39	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Cobalt	6020A	**0.069**	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Copper	6020A	**0.38**	ug/L	0.10	1	07/02/18 17:38	06/19/18	
Iron	6010C	**35**	ug/L	21	1	06/28/18 17:39	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Magnesium	6010C	**11400**	ug/L	5.3	1	06/28/18 17:39	06/19/18	
Manganese	6010C	**9.4**	ug/L	1.1	1	06/28/18 17:39	06/19/18	
Molybdenum	6020A	**2.21**	ug/L	0.10	1	07/02/18 17:38	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 17:39	06/19/18	
Potassium	6010C	**1470**	ug/L	420	1	06/28/18 17:39	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 17:38	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Sodium	6010C	**5110**	ug/L	210	1	06/28/18 17:39	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/02/18 17:38	06/19/18	

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 13:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-1	**Basis:**	NA
Lab Code:	K1805697-012		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**43.8**		ug/L	4.0	1	07/02/18 16:50	06/19/18	
Antimony	6020A	**114**		ug/L	0.050	1	07/02/18 16:50	06/19/18	
Arsenic	6020A	**120**		ug/L	0.50	1	07/02/18 16:50	06/19/18	
Barium	6020A	**85.6**		ug/L	0.050	1	07/02/18 16:50	06/19/18	
Beryllium	6020A	ND	U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Boron	6010C	**23**		ug/L	21	1	06/28/18 17:06	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Calcium	6010C	**37200**		ug/L	21	1	06/28/18 17:06	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 16:50	06/19/18	
Cobalt	6020A	**0.136**		ug/L	0.020	1	07/02/18 16:50	06/19/18	
Copper	6020A	**0.28**		ug/L	0.10	1	07/02/18 16:50	06/19/18	
Iron	6010C	**691**		ug/L	21	1	06/28/18 17:06	06/19/18	
Lead	6020A	**0.076**		ug/L	0.020	1	07/02/18 16:50	06/19/18	
Magnesium	6010C	**11300**		ug/L	5.3	1	06/28/18 17:06	06/19/18	
Manganese	6010C	**22.4**		ug/L	1.1	1	06/28/18 17:06	06/19/18	
Molybdenum	6020A	**2.10**		ug/L	0.10	1	07/02/18 16:50	06/19/18	
Nickel	6020A	**0.26**		ug/L	0.20	1	07/02/18 16:50	06/19/18	
Phosphorus	6010C	**56**		ug/L	42	1	06/28/18 17:06	06/19/18	
Potassium	6010C	**1610**		ug/L	420	1	06/28/18 17:06	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 16:50	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Sodium	6010C	**5010**		ug/L	210	1	06/28/18 17:06	06/19/18	
Thallium	6020A	ND	U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 16:50	06/19/18	
Zinc	6020A	ND	U	ug/L	2.0	1	07/02/18 16:50	06/19/18	

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12-13/18
Sample Matrix:	Water	**Date Received:**	06/15/18

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-AS-1-M	K1805697-011	0.5	1	06/18/18	06/19/18	32.6	
YP-AS-1	K1805697-012	0.5	1	06/18/18	06/19/18	47.8	
YP-AS-2-US	K1805697-013	0.5	1	06/18/18	06/19/18	154	
YP-AS-2-M	K1805697-014	0.5	1	06/18/18	06/19/18	21.8	
YP-AS-2-DS	K1805697-015	0.5	1	06/18/18	06/19/18	178	
YP-AS-2	K1805697-016	0.5	1	06/18/18	06/19/18	1.3	
YP-D-04	K1805697-017	0.5	1	06/18/18	06/19/18	1.1	
YP-B-04	K1805697-018	0.5	1	06/18/18	06/19/18	0.6	
YP-AS-4-M	K1805697-019	0.5	1	06/18/18	06/19/18	4.6	
YP-AS-4-US	K1805697-020	0.5	1	06/18/18	06/19/18	6.3	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	

Exhibit 18 - Photos of the Cinnabar Tunnel

"The Cinnabar Tunnel adit seep (YP-AS-4) flows from the collapsed Cinnabar adit opening in the middle of the hillside east of the EFSFSR and about 250 feet upstream of the Midnight Creek confluence...The seep flows directly to the west, splits through thick riparian vegetation on the EFSFSR floodplain, and flows into the EFSFSR year-round in three locations – one upstream of YP-SR-6 and two downstream of that site." (Surface Water Quality Baseline Study, pg. 4-236)

Figure 18A. Photo of the Cinnabar Adit Seep (YP-AS-4) source, from the Surface Water Quality Baseline Study, Appendix G, August 2012 Site Photos, page 14. Photo caption reads, "YP-AS-4, Cinnabar Tunnel adit seep. Close-up looking east at seep source. August 2012."

Figure 18B. Photo of one of the Cinnabar Adit Seep (YP-AS-4) channels flowing into the EFSFSR, from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 5. Photo caption reads, "YP-AS-4, Cinnabar adit seep. Close-up looking east and upstream at seep flowing into EFSFSR (flows downstream to left) below YP-SR-6."

Exhibit 19 - Water Quality Data Collected from the Cinnabar Tunnel Adit

Table 19A. Summary statistics of data collected from the Cinnabar Tunnel Adit Seep (YP-AS-4) (Surface Water Quality Baseline Study, Appendix E, pages 21-26). Data was collected from May, 2012 to February, 2016. All non-detects were entered as “0’s” to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)				
µg/L	**Antimony**		**Arsenic**	
	Dissolved	**Total**	**Dissolved**	**Total**
Cinnabar Adit Seep (YP-AS-4)				
Minimum	42.8	43.4	82.3	82.5
Maximum	56.3	54.6	127.0	126
Average	49.3	49.2	108.2	108.5
Median	50.0	49.2	110.0	109.0
# Samples	21	21	21	21

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	**NA**		**NA**		**15**		**NA**		**> 6**		**≥ 6.5 and ≤ 9.0**		**< 13**		**NA**		**> 20**		**50**		**50**	
Units	**Month**	**Year**	**CFS**	**Flag**	**Pt-Co**	**Flag**	**mS/cm**	**Flag**	**mg/L**	**Flag**	**pH units**	**Flag**	**deg C**	**Flag**	**NTU**	**Flag**	**mg/L**	**Flag**	**µg/L**	**Flag**	**µg/L**	**Flag**
YP-AS-4	5	2012	0.37	- -	0	- -	NM	- -	10.6	- -	NM	- -	4.2	- -	3.1	- -	76.6	- -	12.7	- -	< 2.0	U
YP-AS-4	6	2012	0.24	- -	NM	- -	0.188	- -	9.7	- -	7.7	- -	5.8	- -	1.5	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	7	2012	0.10	- -	NM	- -	0.223	- -	9.5	- -	7.3	- -	9.1	- -	4.9	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	8	2012	5.9E-02	- -	0	- -	0.249	- -	6.8	- -	7.4	- -	6.7	- -	0	- -	107	- -	6.6	- -	2.1	- -
YP-AS-4	9	2012	8.9E-02	- -	NM	- -	0.233	- -	9.3	- -	7.7	- -	6.5	- -	1.2	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	10	2012	4.2E-02	- -	NM	- -	0.243	- -	9.6	- -	7.6	- -	5.0	- -	1.1	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	11	2012	5.5E-02	- -	0	- -	0.246	- -	9.2	- -	7.6	- -	6.2	- -	1.1	- -	108	- -	3.1	- -	< 2.0	U
YP-AS-4	12	2012	7.0E-02	- -	NM	- -	0.238	- -	10.8	- -	8.1	- -	4.6	- -	1.0	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	1	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	2	2013	4.0E-02	- -	0	- -	0.242	- -	10.1	- -	7.7	- -	3.1	- -	1.6	- -	104	- -	< 2.0	U	< 2.0	U
YP-AS-4	3	2013	5.0E-02	- -	NM	- -	0.258	- -	10.4	- -	7.7	- -	3.5	- -	0.6	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	4	2013	0.11	- -	NM	- -	0.243	- -	10.3	- -	7.6	- -	3.1	- -	2.4	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	5	2013	0.30	- -	0	- -	0.226	- -	9.8	- -	7.4	- -	4.2	- -	1.4	- -	98.2	- -	69.8	- -	2	- -
YP-AS-4	6	2013	0.28	- -	NM	- -	0.190	- -	9.6	- -	7.2	- -	5.2	- -	0.5	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	7	2013	9.1E-02	- -	NM	- -	0.215	- -	9.2	- -	7.1	- -	7.3	- -	1.8	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	8	2013	6.1E-02	- -	0	- -	0.239	- -	9.2	- -	7.3	- -	7.2	- -	1.5	- -	107	- -	3.4	- -	< 2.0	U
YP-AS-4	9	2013	7.5E-02	- -	NM	- -	0.245	- -	9.2	- -	7.4	- -	6.7	- -	1.0	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	10	2013	7.8E-02	- -	NM	- -	0.238	- -	9.0	- -	7.7	- -	6.4	- -	2.1	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	11	2013	6.0E-02	- -	0	- -	0.234	- -	9.5	- -	7.6	- -	5.8	- -	1.5	- -	112	- -	3.8	- -	< 2.0	U
YP-AS-4	12	2013	5.0E-02	- -	NM	- -	0.238	- -	10.1	- -	7.2	- -	4.6	- -	1.6	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	1	2014	6.1E-02	- -	NM	- -	0.227	- -	10.3	- -	7.8	- -	3.6	- -	3.0	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	2	2014	5.1E-02	- -	0	- -	0.305	- -	10.3	- -	7.3	- -	3.3	- -	2.4	- -	111	J	2.7	J+	< 2	U
YP-AS-4	3	2014	0.11	- -	NM	- -	0.236	- -	10.8	- -	7.5	- -	2.3	- -	2.0	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	4	2014	0.16	- -	NM	- -	0.228	- -	10.7	- -	7.4	- -	2.8	- -	2.6	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	5	2014	0.19	- -	0	- -	0.230	- -	9.9	- -	7.3	- -	4.7	- -	2.1	- -	105	- -	4.2	- -	< 2.0	U
YP-AS-4	6	2014	0.22	- -	NM	- -	0.185	- -	9.7	- -	6.9	- -	5.0	- -	1.8	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	7	2014	0.14	- -	NM	- -	0.213	- -	9.5	- -	7.1	- -	6.0	- -	0.5	- -	NM	- -	NM	- -	NM	- -
YP-AS-4	8	2014	7.8E-02	- -	0	- -	0.246	- -	9.2	- -	7.1	- -	7.0	- -	1.2	- -	113	- -	4.6	- -	< 2.0	U
YP-AS-4	11	2014	3.4E-02	- -	0	- -	0.263	- -	9.7	- -	7.0	- -	6.2	- -	3.1	- -	118	- -	4.2	- -	< 2.0	U
YP-AS-4	2	2015	5.5E-02	- -	0	- -	0.237	- -	10.3	- -	7.7	- -	3.6	- -	2.0	- -	109	- -	3.5	J+	< 2.0	U
YP-AS-4	5	2015	6.6E-02	- -	0	- -	0.222	- -	10.1	- -	7.9	- -	4.7	- -	2.3	- -	104	- -	7.1	- -	2.4	- -
YP-AS-4	8	2015	3.8E-02	- -	0	- -	0.248	- -	6.7	- -	7.1	- -	6.4	- -	1.2	- -	114	- -	7.1	J+	< 2	U
YP-AS-4	11	2015	1.0E-02	- -	0	- -	0.274	- -	9.7	- -	7.5	- -	5.8	- -	3.6	- -	114	- -	31	- -	2.7	- -
YP-AS-4	2	2016	2.1E-02	- -	0	- -	0.251	- -	8.3	- -	7.4	- -	3.1	- -	1.2	- -	107	- -	17.9	- -	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected
UJ not detected, estimated
J+ estimated with possible high bias
J estimated
J- estimated with possible low bias
R datum rejected
RM measured but rejected
-- no flag
< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-AS-4

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	46.2	- -	45.7	- -	0.17	- -	82.5	- -	82.3	- -	6.4	J+	6.3	J+	< 0.02	U	< 0.02	U	76.6	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	48.7	- -	47.9	- -	0.17	- -	103	- -	101	- -	9.75	- -	9.78	- -	< 0.02	U	< 0.02	U	107	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	49.5	- -	49.3	- -	0.18	- -	122	- -	120	- -	11	- -	11	- -	< 0.02	U	< 0.02	U	108	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	46.4	- -	47.4	- -	0.16	- -	107	- -	108	- -	9.26	J+	9.51	J+	< 0.02	U	< 0.02	U	104	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	43.4	- -	42.8	- -	0.13	- -	85.3	- -	85.6	- -	9.08	J+	9.35	J+	< 0.02	U	< 0.02	U	98.2	- -	< 20.0	UJ	< 20.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	52.4	- -	54.7	- -	0.18	- -	116	- -	115	- -	9.82	J+	10.1	J+	< 0.02	U	< 0.02	U	107	- -	< 40.0	UJ	< 40.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	51.3	- -	51.1	- -	0.14	- -	117	- -	117	- -	10.6	J+	10.6	J+	< 0.02	U	< 0.02	U	112	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.05	U	50.9	- -	50.9	J	0.12	- -	111	- -	110	- -	9.09	J+	8.97	J+	< 0.02	U	< 0.02	U	109	J	< 20	U	< 20	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	46.2	- -	43.9	- -	0.125	- -	99.4	- -	98.8	- -	8.58	J+	8.16	J+	< 0.02	U	< 0.02	U	105	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	49.2	- -	50	- -	0.18	- -	109	- -	108	- -	9.44	- -	9.48	- -	< 0.02	U	< 0.02	U	113	- -	< 20.0	U	< 20.0	U
< 0.050	U	49.1	- -	50.3	- -	0.16	- -	120	- -	125	- -	10.8	- -	11.1	- -	< 0.02	U	< 0.02	U	118	- -	< 20.0	U	< 20.0	U
< 0.050	U	50.2	- -	51	- -	0.15	- -	109	- -	109	- -	9.1	- -	8.9	- -	< 0.02	U	< 0.02	U	109	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	45.4	- -	45.3	- -	0.08	- -	105	- -	105	- -	9.01	- -	9.07	- -	< 0.02	U	< 0.02	U	104	- -	< 20.0	U	< 20.0	U
< 0.05	U	54.6	- -	56.3	- -	0.19	- -	126	- -	127	- -	11.2	- -	11	- -	< 0.02	U	< 0.02	U	114	- -	< 20	U	< 21.3	U
< 0.05	U	51.1	- -	51.1	- -	0.26	- -	121	- -	120	- -	11.4	- -	11	- -	< 0.02	U	< 0.02	U	114	- -	< 20	U	< 20	U
< 0.05	U	46.2	- -	47.5	- -	0.1	- -	107	- -	110	- -	9.47	- -	9.56	- -	< 0.02	U	< 0.02	U	107	- -	< 20	U	< 20	U

YP-AS-4

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	23500	- -	23200	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.03	J+	0.03	J+	0.2	- -	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	31500	- -	31100	- -	< 9.0	U	< 0.40	U	1	J+	< 0.2	U	0.04	J+	0.03	J+	0.2	- -	0.2	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	32100	- -	32900	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	< 0.1	U	0.2	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	30900	- -	31500	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.08	J+	0.07	J+	0.2	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	29600	- -	29400	- -	< 9.0	U	< 0.40	U	0.2	J+	< 0.2	U	0.04	J+	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	31100	- -	30700	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	33000	- -	33000	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	31900	- -	31900	- -	< 15	U	< 0.4	U	0.2	J+	0.4	J+	0.07	J+	0.06	J+	0.2	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	29900	- -	29900	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	32400	- -	31400	- -	< 15	U	0.43	- -	0.4	J+	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	34500	- -	34900	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.03	- -	0.04	- -	0.1	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	31600	- -	30900	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	< 0.1	U	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	30300	- -	30800	- -	< 15	U	< 0.40	U	< 0.2	U	0.2	J+	0.04	J+	0.04	J+	0.1	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	33200	- -	33900	- -	< 15	U	< 0.4	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.2	- -	0.1	- -	< 0.0047	U
< 0.02	U	< 0.02	U	32100	- -	31900	- -	< 15	U	0.22	- -	< 0.2	U	< 0.2	U	0.12	J+	0.11	J+	0.2	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	32300	- -	31800	- -	< 15	U	0.23	- -	< 0.2	U	< 0.2	U	0.08	- -	0.08	- -	0.2	- -	0.3	- -	< 0.0047	U

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	84.9	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	6360	- -	6260	- -	< 5.0	U	< 5.0	U	4.5	- -	1.5	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	112	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8100	- -	7920	- -	< 5.0	UJ	< 5.0	UJ	3	- -	1.5	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	117	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9000	- -	9120	- -	< 5.0	U	< 5.0	U	1.8	J+	1.1	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	115	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9240	- -	9400	- -	< 5.0	U	< 5.0	U	1.2	- -	< 1.0	U	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	108	- -	88.8	- -	< 20.0	U	0.02	- -	< 0.02	U	8240	- -	8280	- -	< 2.0	U	< 2.0	U	10.4	- -	1.9	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	112	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8200	- -	8250	- -	< 1.0	U	< 1.0	U	3.4	- -	1.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	120	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9090	- -	9020	- -	< 1.0	U	< 1.0	U	1.7	- -	1.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.2	U	117	- -	< 20	U	< 20	U	< 0.02	U	< 0.02	U	9090	- -	9020	- -	< 1	U	< 1	U	1.2	- -	< 1	U	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	110	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8670	J	8640	J	< 1.0	U	< 1.0	U	3	- -	1.6	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	117	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8710	- -	8640	- -	< 1.0	UJ	< 1.0	UJ	2.4	- -	1.7	- -	< 0.1	U
< 0.20	U	125	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9410	- -	9470	- -	< 1.0	UJ	< 1.0	UJ	1.6	- -	0.9	- -	< 0.1	U
< 0.20	U	116	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9100	- -	8890	- -	< 1.0	UJ	< 1.0	UJ	2.6	- -	1.1	- -	< 0.1	U
< 0.20	U	113	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8970	- -	8340	- -	< 1.0	UJ	< 1.0	UJ	2.1	- -	1.1	- -	< 0.1	U
< 0.2	U	120	- -	< 20	U	< 21.3	U	< 0.02	U	< 0.02	U	9000	- -	9190	- -	< 1	U	< 1.1	U	2.6	- -	0.9	- -	< 0.1	U
< 0.2	U	120	- -	33.9	- -	< 20	U	< 0.02	U	< 0.02	U	9680	- -	9520	- -	1.1	- -	< 1	U	5.2	- -	0.9	- -	< 0.1	U
< 0.2	U	119	- -	30.6	- -	< 20	U	0.03	- -	< 0.02	U	9370	- -	9340	- -	< 1	U	< 1	U	1.5	- -	0.7	- -	< 0.1	U

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total*		Nickel, Dissolved*		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52		52		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
0.9	- -	0.85	- -	0.2	J+	0.2	J+	0.205	- -	0.66	- -	0.45	J+	< 20.0	UJ	< 20.0	UJ	1400	- -	1340	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.05	- -	1.03	- -	0.5	J+	0.3	J+	0.16	- -	< 0.40	U	< 0.40	U	< 20.0	UJ	< 20.0	UJ	1610	- -	1560	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.03	J+	1.1	J+	< 0.2	U	< 0.2	U	0.204	- -	0.75	- -	0.55	- -	< 20.0	UJ	< 20.0	UJ	1630	- -	1640	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.01	- -	1.03	- -	0.5	J+	0.4	J+	0.344	- -	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	1490	- -	1590	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.88	- -	0.87	- -	< 0.20	U	< 0.20	U	0.241	- -	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	1560	- -	1610	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.13	- -	1.1	- -	< 0.20	U	< 0.20	U	0.146	- -	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	1640	- -	1610	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.01	- -	1.04	- -	< 0.20	U	< 0.20	U	0.256	- -	1	- -	0.74	- -	< 40.0	UJ	< 40.0	UJ	1660	- -	1630	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.98	J+	0.97	J+	0.3	J+	0.4	J+	0.353	- -	0.95	- -	0.6	- -	< 40	UJ	< 40	UJ	1450	- -	1450	- -	< 1	UJ	< 1	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.01	- -	0.96	- -	< 0.2	U	< 0.2	U	0.382	- -	0.85	- -	0.47	- -	< 40.0	UJ	< 40.0	UJ	1510	- -	1500	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.99	- -	0.97	- -	< 0.2	U	< 0.2	U	0.139	- -	0.6	J+	0.46	J+	< 40.0	UJ	< 40.0	UJ	1680	- -	1660	- -	< 1.0	U	< 1.0	U
0.9	- -	0.98	- -	0.3	J+	0.4	J+	0.166	- -	0.51	UJ	< 0.40	UJ	< 40.0	U	< 40.0	U	1730	- -	1750	- -	< 1.0	U	< 1.0	U
1	- -	0.96	- -	< 0.2	U	< 0.2	U	0.293	- -	0.82	J+	0.53	J+	< 40.0	U	< 40.0	U	1580	- -	1530	- -	< 1.0	U	< 1.0	U
1.09	- -	1.1	- -	0.3	J+	0.4	J+	0.263	- -	0.61	- -	< 0.40	U	< 40.0	U	< 40.0	U	1620	- -	1510	- -	< 1.0	U	< 1.0	U
1.08	J+	1.09	J+	0.3	- -	< 0.2	U	0.134	- -	1.07	- -	0.93	J+	< 40	U	< 42.6	U	1650	- -	1660	- -	< 1	U	< 1	U
1.03	- -	1.05	- -	0.5	J+	0.6	J+	0.157	- -	0.88	J+	0.72	J+	< 40	U	< 40	U	1710	- -	1680	- -	< 1	UJ	< 1	UJ
1.01	- -	1.04	- -	0.4	- -	0.4	- -	0.245	- -	0.85	- -	0.6	- -	< 40	U	< 40	U	1580	- -	1610	- -	< 1	U	< 1	U

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.02	U	815	- -	794	- -	116	- -	< 5.0	U	9.42	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.03	J+	< 0.02	U	902	- -	896	- -	131	- -	< 5.0	U	12.1	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	996	- -	1000	- -	139	- -	< 5.0	U	14.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	886	- -	920	- -	117	- -	< 5.0	U	15.1	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	917	- -	971	- -	119	- -	< 5.0	U	10.3	- -	< 0.020	U	< 0.020	U	0.2	- -	< 0.2	U	0.9	J+	0.8	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	910	- -	914	- -	128	- -	< 5.0	U	10.3	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	935	- -	917	- -	116	- -	< 5.0	U	13.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	826	- -	833	- -	117	- -	< 5	U	14.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	1000	- -	1010	- -	132	- -	< 5.0	U	12.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	999	- -	999	- -	146	- -	< 5.0	U	11.1	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	1030	- -	1040	- -	222	J+	< 5.0	U	13.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	J+
< 0.02	U	< 0.02	U	831	- -	850	- -	127	- -	< 5.0	U	12.8	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.5	J+
< 0.02	U	< 0.02	U	999	- -	936	- -	132	- -	< 5.0	U	12.6	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	1030	- -	1040	- -	111	- -	< 5	U	10.6	- -	< 0.02	U	< 0.02	U	< 0.2	U	0.2	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	1020	- -	1010	- -	130	- -	< 5	U	13.1	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.2	J+	1.1	J+
< 0.02	U	< 0.02	U	903	- -	929	- -	107	- -	< 5	U	13	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	- -	0.7	- -

Anatek Labs, Inc.

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Client:	NEZ PERCE TRIBE WATER RESOURCE DIV.	**Batch #:**	180618002
Address:	PO BOX 365 LAPWAI, ID 83540	**Project Name:**	MG WQS - 062018
Attn:	KEN CLARK		

Analytical Results Report

Sample Number	180618002-017	**Sampling Date**	6/12/2018	**Date/Time Received**	6/14/2018 3:45 PM
Client Sample ID	YP-AS-4-S	**Sampling Time**	6:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0587	mg/L	0.01	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Antimony	0.0481	mg/L	0.001	6/27/2018 7:48:00 PM	HSW	EPA 200.8	
Arsenic	0.106	mg/L	0.001	6/27/2018 7:48:00 PM	HSW	EPA 200.8	
Dissolved Aluminum	0.00700	mg/L	0.00358	6/28/2018 6:54:00 PM	SDR	EPA 200.7	J
Dissolved Antimony	0.0434	mg/L	0.001	7/3/2018 1:09:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	0.0962	mg/L	0.001	7/3/2018 1:09:00 PM	HSW	EPA 200.8	
Calcium	25.9	mg CaCO3/L	0.1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Hardness	94.5	mg CaCO3/L	1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Magnesium	7.21	mg CaCO3/L	0.1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
NO3/N+NO2/N	0.115	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	
TSS	<1	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	
TKN	0.800	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	0.915	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	

Analytical Report

Client: Midas Gold Mine, Inc
Project: Midas Gold Mine
Sample Matrix: Water

Service Request: K1805697
Date Collected: 06/12/18 18:15
Date Received: 06/15/18 09:40

Sample Name: YP-AS-4B
Lab Code: K1805697-021

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND U	ug/L	4.0	1	07/12/18 12:04	06/19/18	
Antimony	6020A	**54.5**	ug/L	0.050	1	07/12/18 12:04	06/19/18	
Arsenic	6020A	**110**	ug/L	0.50	1	07/12/18 12:04	06/19/18	
Barium	6020A	**8.23**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 18:49	06/19/18	
Cadmium	6020A	ND U	ug/L	0.040	1	07/12/18 12:04	06/19/18	
Calcium	6010C	**26400**	ug/L	21	1	06/28/18 18:49	06/19/18	
Chromium	6020A	**0.20**	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Cobalt	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Copper	6020A	**0.25**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 18:49	06/19/18	
Lead	6020A	**0.026**	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Magnesium	6010C	**6970**	ug/L	5.3	1	06/28/18 18:49	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 18:49	06/19/18	
Molybdenum	6020A	**1.19**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 18:49	06/19/18	
Potassium	6010C	**1410**	ug/L	420	1	06/28/18 18:49	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/12/18 12:04	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Sodium	6010C	**1020**	ug/L	210	1	06/28/18 18:49	06/19/18	
Thallium	6020A	**0.031**	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/12/18 12:04	06/19/18	

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 18:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-4B	**Basis:**	NA
Lab Code:	K1805697-021		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**16.8**	ug/L	4.0	1	07/12/18 11:28	06/19/18	
Antimony	6020A	**53.0**	ug/L	0.050	1	07/12/18 11:28	06/19/18	
Arsenic	6020A	**110**	ug/L	0.50	1	07/12/18 11:28	06/19/18	
Barium	6020A	**8.41**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 18:36	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Calcium	6010C	**26100**	ug/L	21	1	06/28/18 18:36	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Cobalt	6020A	**0.025**	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Copper	6020A	**0.11**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 18:36	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Magnesium	6010C	**6860**	ug/L	5.3	1	06/28/18 18:36	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 18:36	06/19/18	
Molybdenum	6020A	**1.14**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 18:36	06/19/18	
Potassium	6010C	**1390**	ug/L	420	1	06/28/18 18:36	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/12/18 11:28	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Sodium	6010C	**1020**	ug/L	210	1	06/28/18 18:36	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/12/18 11:28	06/19/18	

Exhibit 20 – Photos of the Meadow Creek Adit

"The Meadow Creek Mine adit seep (YP-AS-7) is located above the heap leach pile at the base of the Hangar Flats hillside (see photos in Appendix G). It originates from the scarred hillside; due to substantial disturbance from legacy mining and more recent hillslope erosion, it is not clear exactly where the adit was or how close the seep is to the former adit. Historical records, including photos and maps, indicate at least two adits existed on this hillside (Mitchell 2000). During spring snowmelt, the seep flows into a drainage ditch at the base of the hillside where it infiltrates into the subsurface. The seep generally only flows during the spring snowmelt season." (Surface Water Quality Baseline Study, pg. 4-90)

However, in May of 2018 and during high spring flows, a Nez Perce Tribe (NPT) staff member followed flow from the Meadow Creek adit source and witnessed adit water entering the EFSF over a half mile from the adit's source. Figure 21A shows the flow path he followed. The yellow circle denotes where flow went subsurface three weeks later, during a follow-up visit.

Figure 20A. Aerial view of the flow path that a NPT staff member witnessed during May of 2018. The yellow circle denotes where adit flows went subsurface three weeks later (June, 2018) during a follow-up site visit.

Figure 20B. Photo of the Meadow Creek Adit Seep (YP-AS-7) source. Photo taken by NPT staff staff in June, 2018.

Figure 20C. Photo of the Meadow Creek Adit Seep (YP-AS-7) just downstream of the source. Photo taken by NPT staff in June, 2018.

Figure 20D. Photo of the Meadow Creek Adit Seep (YP-AS-7) flowing down an old road ditch. Photo taken by NPT staff in June, 2018.

Exhibit 21 - Water Quality Data Collected from the Meadow Creek Adit

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)

µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
Meadow Creek Adit Seep (YP-AS-)											
Minimum	0.0	5.0	7.5	40.9	217.0	1100	22.6	8200	1390	1610	11.5
Maximum	14.1	8530	56.0	270.0	11900	44800	46600	135000	2120	2660	746
Average	4.5	969	22.1	147.0	6547	17579	24838	63756	1779	2018	277.4
Median	2.9	101.0	19.5	146.0	8700	13900	36800	55800	1740	2120	119
# Samples	9	9	9	9	9	9	9	9	9	9	9

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		>50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-7	5	2012	1.7E-03	- -	0	- -	1.47	- -	5.3	- -	7.7	- -	12.5	- -	1.4	- -	348	- -	5	- -	< 2.0	U
YP-AS-7	6	2012	1.8E-03	- -	NM	- -	1.22	- -	8.2	- -	7.5	- -	10.5	- -	55	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	7	2012	7.2E-04	- -	NM	- -	1.19	- -	6.1	- -	7.2	- -	17.8	- -	34	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	8	2012	2.2E-04	- -	0	- -	1.09	- -	7.5	- -	7.9	- -	15.4	- -	41	- -	273	- -	101	- -	3.7	J+
YP-AS-7	9	2012	2.8E-03	- -	NM	- -	1.08	- -	3.0	- -	6.9	- -	18.3	- -	97	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	10	2012	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	11	2012	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	2	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	3	2013	3.9E-03	- -	NM	- -	0.172	- -	11.6	- -	7.5	- -	1.4	- -	RM	R	NM	- -	NM	- -	NM	- -
YP-AS-7	4	2013	5.3E-05	- -	NM	- -	1.05	- -	8.7	- -	7.6	- -	2.2	- -	1086	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	5	2013	1.1E-04	- -	0	- -	1.34	- -	4.3	- -	6.8	- -	18.1	- -	6.3	- -	317	- -	20.4	- -	2.6	- -
YP-AS-7	6	2013	1.2E-05	- -	NM	- -	1.34	- -	4.1	- -	7.0	- -	10.0	- -	56	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	7	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	8	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	9	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	10	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	11	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	12	2013	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	1	2014	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	3	2014	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	4	2014	4.2E-03	- -	NM	- -	1.48	- -	2.1	- -	6.8	- -	8.2	- -	7.1	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	5	2014	4.6E-03	- -	0	- -	1.51	- -	3.4	- -	6.9	- -	9.1	- -	15	- -	412	- -	8530	- -	14.1	- -
YP-AS-7	6	2014	3.3E-03	- -	NM	- -	1.52	- -	1.9	- -	6.9	- -	10.8	- -	16	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	7	2014	1.9E-03	- -	NM	- -	1.42	- -	2.0	- -	6.8	- -	10.6	- -	10	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	8	2014	7.3E-04	- -	0	- -	1.41	- -	3.7	- -	7.0	- -	11.1	- -	118	- -	376	- -	434	- -	13.1	- -
YP-AS-7	11	2014	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	2	2015	1.7E-03	- -	0	- -	1.36	- -	5.4	- -	7.4	- -	9.3	- -	26	- -	408	- -	280	- -	3.7	- -
YP-AS-7	5	2015	6.0E-04	- -	0	- -	1.40	- -	4.4	- -	6.9	- -	11.4	- -	97	- -	383	- -	277	- -	2.9	- -
YP-AS-7	8	2015	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	11	2015	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
YP-AS-7	2	2016	NA	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U	not detected
UJ	not detected, estimated
J+	estimated with possible high bias
J	estimated
J-	estimated with possible low bias
R	datum rejected
RM	measured but rejected
--	no flag
< 0.002	not detected at the method reporting limit of 0.002 mg/L

YP-AS-7

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	146	- -	26	- -	4190	- -	1100	- -	217	- -	24.6	J+	14.8	J+	0.04	- -	< 0.02	U	348	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	76.9	- -	56	- -	556	- -	1290	- -	297	- -	30.1	- -	20.8	- -	0.03	- -	< 0.02	U	273	- -	< 10.0	U	< 10.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.050	U	40.9	- -	32.3	- -	1020	- -	1320	- -	807	- -	47.7	- -	45.4	- -	0.03	- -	< 0.02	U	317	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.050	U	211	- -	7.45	- -	9470	- -	17500	- -	8700	- -	444	- -	21.1	- -	3.72	- -	0.06	- -	412	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.135	- -	266	- -	19.5	- -	6430	- -	30800	- -	4190	- -	95.8	- -	19.7	- -	0.55	- -	< 0.02	U	376	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	270	- -	8.71	- -	17800	- -	44800	- -	9810	- -	124	- -	23.2	- -	0.79	- -	0.03	- -	408	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	265	- -	9.56	- -	20200	- -	35600	- -	11900	- -	162	- -	27.4	- -	1.6	- -	0.06	- -	383	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
0.03	J+	< 0.02	U	238000	- -	234000	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.58	J+	0.49	J+	0.2	- -	< 0.1	U	< 0.010	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	173000	- -	175000	- -	< 9.0	U	< 0.40	U	< 0.2	U	0.2	J+	3.92	J+	2.69	J+	0.7	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	216000	- -	214000	- -	< 9.0	U	< 0.40	U	0.3	J+	0.3	J+	5.14	- -	4.8	- -	0.1	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.22	J+	< 0.02	U	256000	- -	241000	- -	< 15	U	0.59	- -	3.2	- -	< 0.2	U	6.65	- -	1.5	J+	7.8	- -	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.03	J+	< 0.02	U	219000	- -	207000	- -	< 15	U	0.54	- -	0.2	J+	< 0.2	U	3.62	- -	2.59	- -	0.6	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.05	J+	< 0.02	U	217000	- -	214000	- -	< 15	U	0.52	- -	0.2	J+	< 0.2	U	2.48	- -	1.83	- -	0.6	J+	< 0.1	U	< 0.0047	U
0.06	J+	< 0.02	U	241000	- -	213000	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	4.57	- -	2.85	- -	0.7	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

YP-AS-7

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
0.67	- -	823	- -	28300	- -	1430	- -	0.19	J+	< 0.02	U	55600	- -	55800	- -	1680	- -	1600	- -	37.4	- -	1.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.75	- -	613	- -	8200	- -	22.6	- -	0.25	J+	< 0.02	U	43800	- -	44100	- -	1610	- -	1390	- -	60.9	- -	4.4	- -	0.11	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.63	- -	757	- -	11300	- -	5190	- -	0.09	- -	< 0.02	U	52500	- -	52500	- -	2150	- -	2100	- -	11.5	- -	2.7	- -	0.15	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.02	- -	878	- -	81100	- -	37800	- -	16.8	- -	< 0.02	U	58100	- -	54200	- -	2130	- -	1700	- -	746	- -	3.3	- -	0.8	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.9	- -	760	- -	103000	- -	12500	- -	1.2	- -	0.03	J+	51800	- -	51200	- -	2120	- -	1740	- -	603	- -	8.9	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.9	- -	757	- -	110000	- -	36800	- -	1.52	- -	< 0.02	U	52600	- -	51900	- -	1980	- -	1810	- -	253	- -	1.7	- -	1.6	- -
0.76	- -	819	- -	135000	- -	43800	- -	1.19	- -	< 0.02	U	53000	- -	49700	- -	2660	- -	1990	- -	639	- -	2.8	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 1.25	U	< 0.25	U	1	J+	0.9	J+	< 0.050	U	0.51	- -	0.51	- -	254	J+	< 40.0	U	3490	- -	3550	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.49	- -	0.43	- -	4.2	J+	3.4	J+	< 0.050	U	0.51	- -	0.51	- -	< 40.0	UJ	< 40.0	UJ	3110	- -	3050	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.38	- -	0.39	- -	4.48	- -	4.18	- -	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	3680	- -	3740	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.26	- -	0.24	- -	6	- -	1.7	J+	< 0.050	U	0.96	J+	0.96	J+	4670	- -	553	- -	7270	- -	3620	- -	2.2	- -	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.47	- -	0.42	- -	3.4	- -	2.5	- -	< 0.050	U	0.48	J+	0.48	J+	2700	- -	< 40.0	UJ	3720	- -	3390	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.43	- -	0.36	- -	2.1	- -	1.6	J+	< 0.050	U	1.12	J+	1.12	J+	2880	- -	< 40.0	U	3610	- -	3280	- -	< 1.0	U	< 1.0	U
0.42	- -	0.35	- -	4.6	- -	2.7	- -	< 0.050	U	< 0.45	U	< 0.40	U	5610	- -	< 40.0	U	3670	- -	3130	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.020	U	6980	- -	7100	- -	1020	- -	72	- -	460	- -	0.22	J+	< 0.02	U	< 0.2	U	< 0.2	U	1	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.04	U	< 0.04	U	9470	- -	9500	- -	776	- -	27	- -	319	- -	0.18	J+	0.04	J+	< 0.2	U	< 0.2	U	2.4	J+	1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.02	U	< 0.02	U	6770	- -	6850	- -	956	- -	21.5	- -	405	- -	0.146	- -	0.056	- -	< 0.2	U	< 0.2	U	2.5	J+	2.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.24	- -	< 0.02	U	7300	- -	7020	- -	1060	- -	108	- -	473	- -	1.88	- -	< 0.02	U	15.5	- -	< 0.2	U	49.7	- -	2.1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.02	U	< 0.02	U	8130	- -	8120	- -	924	- -	192	- -	415	- -	0.61	- -	< 0.02	U	1	- -	< 0.2	U	8.5	- -	1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.02	- -	< 0.02	U	8420	- -	8270	- -	899	- -	153	- -	343	- -	0.72	- -	< 0.02	U	1	- -	< 0.2	U	8.6	- -	1.8	J+
0.03	- -	< 0.02	U	7630	- -	7200	- -	963	- -	1250	- -	378	- -	0.77	- -	< 0.02	U	1.1	- -	< 0.2	U	18	- -	2.3	J+
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Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	NEZ PERCE TRIBE WATER RESOURCE DIV.	**Batch #:**	180618002
Address:	PO BOX 365 LAPWAI, ID 83540	**Project Name:**	MG WQS - 062018
Attn:	KEN CLARK		

Analytical Results Report

Sample Number	180618002-021	**Sampling Date**	6/12/2018	**Date/Time Received**	6/14/2018	3:45 PM
Client Sample ID	YP-AS-7-S	**Sampling Time**	11:30 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0102	mg/L	0.01	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Antimony	0.0513	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	
Arsenic	11.9	mg/L	0.1	6/28/2018 7:16:00 PM	HSW	EPA 200.8	
Dissolved Aluminum	ND	mg/L	0.00358	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Antimony	0.0203	mg/L	0.001	7/10/2018 6:56:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	11.2	mg/L	0.2	7/3/2018 1:46:00 PM	HSW	EPA 200.8	
Dissolved Iron	39.4	mg/L	0.01	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Lead	0.000117	mg/L	0.001	7/5/2018 4:03:00 PM	HSW	EPA 200.8	J
Dissolved Manganese	1.56	mg/L	0.01	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Thallium	0.000182	mg/L	0.001	7/5/2018 4:03:00 PM	HSW	EPA 200.8	J
Calcium	199	mg CaCO3/L	0.1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Hardness	682	mg CaCO3/L	1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Magnesium	44.8	mg CaCO3/L	0.1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Iron	41.1	mg/L	0.02	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Lead	ND	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	
Manganese	1.61	mg/L	0.01	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Mercury-Trace	0.0264	ug/L	0.025	6/21/2018 1:34:00 PM	SDR	EPA 1631e	
NO3/N+NO2/N	ND	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	
TSS	47.5	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	
Sulfate	391	mg/L	1	6/22/2018 7:38:00 PM	MER	EPA 300.0	M1
Thallium	0.000167	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	J
TKN	ND	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	ND	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	
Total P	1.29	mg/L	0.01	6/21/2018 1:15:00 PM	RPU	SM4500PF	

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 11:45
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-7	**Basis:**	NA
Lab Code:	K1805697-007		

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**5.5**	ug/L	4.0	1	07/02/18 13:51	06/19/18	
Antimony	6020A	**31.7**	ug/L	0.050	1	07/02/18 13:51	06/19/18	
Arsenic	6020A	**120000**	ug/L	50	100	07/02/18 13:25	06/19/18	
Barium	6020A	**23.5**	ug/L	0.050	1	07/02/18 13:51	06/19/18	
Beryllium	6020A	**0.126**	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 16:24	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Calcium	6010C	**185000**	ug/L	21	1	06/28/18 16:24	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/02/18 13:51	06/19/18	
Cobalt	6020A	**2.93**	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Copper	6020A	**0.10**	ug/L	0.10	1	07/02/18 13:51	06/19/18	
Iron	6010C	**37300**	ug/L	21	1	06/28/18 16:24	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Magnesium	6010C	**44400**	ug/L	5.3	1	06/28/18 16:24	06/19/18	
Manganese	6010C	**1530**	ug/L	1.1	1	06/28/18 16:24	06/19/18	
Molybdenum	6020A	**0.46**	ug/L	0.10	1	07/02/18 13:51	06/19/18	
Nickel	6020A	**3.32**	ug/L	0.20	1	07/02/18 13:51	06/19/18	
Phosphorus	6010C	**62**	ug/L	42	1	06/28/18 16:24	06/19/18	
Potassium	6010C	**3000**	ug/L	420	1	06/28/18 16:24	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 13:51	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Sodium	6010C	**5690**	ug/L	210	1	06/28/18 16:24	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 13:51	06/19/18	
Zinc	6020A	**3.8**	ug/L	2.0	1	07/02/18 13:51	06/19/18	

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 11:45
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-7	**Basis:**	NA
Lab Code:	K1805697-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**8.8**	ug/L	4.0	1	07/02/18 13:48	06/19/18	
Antimony	6020A	**57.1**	ug/L	0.050	1	07/02/18 13:48	06/19/18	
Arsenic	6020A	**125000**	ug/L	50	100	07/02/18 12:54	06/19/18	
Barium	6020A	**25.9**	ug/L	0.050	1	07/02/18 13:48	06/19/18	
Beryllium	6020A	**0.175**	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 15:50	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Calcium	6010C	**186000**	ug/L	21	1	06/28/18 15:50	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/02/18 13:48	06/19/18	
Cobalt	6020A	**3.05**	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Copper	6020A	ND U	ug/L	0.10	1	07/02/18 13:48	06/19/18	
Iron	6010C	**39100**	ug/L	21	1	06/28/18 15:50	06/19/18	
Lead	6020A	**0.066**	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Magnesium	6010C	**43200**	ug/L	5.3	1	06/28/18 15:50	06/19/18	
Manganese	6010C	**1530**	ug/L	1.1	1	06/28/18 15:50	06/19/18	
Molybdenum	6020A	**0.43**	ug/L	0.10	1	07/02/18 13:48	06/19/18	
Nickel	6020A	**3.39**	ug/L	0.20	1	07/02/18 13:48	06/19/18	
Phosphorus	6010C	**261**	ug/L	42	1	06/28/18 15:50	06/19/18	
Potassium	6010C	**2900**	ug/L	420	1	06/28/18 15:50	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 13:48	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Sodium	6010C	**5540**	ug/L	210	1	06/28/18 15:50	06/19/18	
Thallium	6020A	**0.094**	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 13:48	06/19/18	
Zinc	6020A	**4.4**	ug/L	2.0	1	07/02/18 13:48	06/19/18	

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/11-13/18
Sample Matrix:	Water	**Date Received:**	06/15/18

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-T-49	K1805697-001	0.5	1	06/18/18	06/19/18	9.6	
YP-T-40	K1805697-002	0.5	1	06/18/18	06/19/18	1.4	
YP-B-03	K1805697-003	0.5	1	06/18/18	06/19/18	ND	
YP-HP-51	K1805697-004	0.5	1	06/18/18	06/19/18	9.1	
YP-AS-6	K1805697-005	0.5	1	06/18/18	06/19/18	1.7	
YP-AS-3	K1805697-006	0.5	1	06/18/18	06/19/18	4.2	
YP-AS-7	K1805697-007	0.5	1	06/18/18	06/19/18	18.8	
YP-AS-4-DS	K1805697-008	0.5	1	06/18/18	06/19/18	5.6	
YP-AS-1-DS	K1805697-009	0.5	1	06/18/18	06/19/18	95.5	
YP-AS-1-US	K1805697-010	0.5	1	06/18/18	06/19/18	97	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	