



February 26, 2019

Alaska Department of Environmental Conservation
Division of Water
P.O. Box 111800
Juneau, AK 99811-1800

Re: Kensington Gold Mine Waste Management Permit No. 2013DB0005

Dear Sir and/or Madam:

Waste Management Permit No. 2013DB0002 was issued on September 20, 2013 and became effective on September 20, 2013. Attached please find the 2018 fourth quarter report and the 2018 annual report.

Based on information and belief formed after reasonable inquiry, I certify that the information in this document is true, accurate, and complete.

If you have any questions or require additional information, please contact Kevin Eppers at (907) 523-3328 or by email keppers@coeur.com.

Sincerely,

A handwritten signature in blue ink that reads "Mark Kiessling".

Mark Kiessling
General Manager

XC: Matthew Reece – Forest Service_ electronic copy
Kyle Moselle – ADNR_ electronic copy
Allan Nakanishi – ADEC_ electronic copy
David Khan – ADEC_ electronic copy

**Coeur Alaska - Kensington Gold Mine
Waste Management Permit No. 2013DB0002
4th Quarter 2018 Report**

Section 1.7.2

See attached tables for Monthly Receiving Water Monitoring Results for reporting period

Section 1.7.3 (Table 1-1)

Requirement Number	Monitoring Site	Water Quality Analysis Results	Mean Flow/Quantity Results	Frequency
1	Dam Seepage Sump	See Attached Table 1 for Results	See Attached Table 4 for results	(Monthly)
2	TTF Pond	See Attached Table 1 for Results	N/A	Quarterly
3	Upper Slate Lake/(USL) TTF bypass pipe	N/A	See Attached Table 5 for results	Weekly
4	USL to TTF	N/A	No events occurred during the reporting period.	N/A
5	Rainfall	N/A	See Attached Table 6 for results	Monthly
6	Snow	N/A	See Attached Table 6 for results	Cumulative Monthly
7	Graphitic phyllite seeps on the East & West embankments below the dam	No graphitic phyllite seeps were observed on the east and west embankments during 2018 primarily due to the stage 3 dam raise activities and associated installation of cement to mitigate the graphitic phyllite.	N/A	When Observed (no more frequently than annually)
8	Graphitic phyllite seeps at the Northwest end of the TTF	Samples were collected and reported in attached table 1 for the 4th quarter of 2018. Please note that the Sample Name is ARD-SUMP.	N/A	Quarterly when accessible
9	GPPTP effluent	See Attached Table 1 for Results.	N/A	Monthly
10	GPPTP effluent	N/A	See attached Table 7	Monthly Mean -gpm
11	Mine Drainage to WTP	See Attached Table 1 for results	See Attached Table 8 for results	Monthly
12	Mine Sump Sediments	Samples were collected in the 1st quarter of 2018 and no samples were taken during the reporting period as monitoring was reduced to annually since there has been no significant increase in constituents. See Table 2 for 1st quarter sample results.	N/A	Quarterly; Can be reduced to annually after 8 quarterly samples show no significant increase in constituents.
13	Pit 3 standing seep water	No standing seep water identified during the reporting period	N/A	Quarterly
14	Tailings as required by POO	See Attached Table 3 for results	N/A	Quarterly
15	Development Rock as required by POO	See Attached Table 3 for results	N/A	Quarterly

Section 1.7.4.1

Requirement Number	Monitoring Site	Visual Monitoring Conducted on Following Date (s)	Issues Identified related to damage or potential damage from settlement, ponding, leakage, frost action, erosion, or operations	Frequency
16	TTF dam	Every Day during reporting period of 10-1-18 thru 12-31-18; Inspection forms can be provided upon request.	None	Weekly
17	Tailings Pipeline	Once a week during reporting period of 10-1-18 thru 12-31-18; Inspection forms can be provided upon request.	None	Weekly

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
Mine Drainage to WTP	9/25/13	134	1.19	1.8	8.2	11.88	9.15	226.7	2.55	0.13	54.1	1080	11.3	46700	77.7	<0.2
Mine Drainage to WTP	10/23/13	236	2.24	7.6	7.9	12.48	8.26	260.1	4.13	0.25	88.3	70.5	<2.5	4600	7.23	<0.2
Mine Drainage to WTP	11/7/13	188	1.96	1.7	7.6	12.12	8.35	221.7	4.48	0.129	57.9	116	<2.5	2680	4.64	<0.2
Mine Drainage to WTP	12/10/13	181	0.56	3.8	7.7	11.83	8.39	284.1	0.95	<0.10	54	170	<2.5	8710	15.6	<0.2
Mine Drainage to WTP	1/6/14	608	11.6	70	8.2	12.22	7.75	1011	24.9	<0.10	198	490	4.2	13000	28.2	<0.2
Mine Drainage to WTP	2/10/14	234	4.7	2.6	6.4	12.37	7.6	186.5	4.88	0.3	72.9	1030	6.4	20800	44.6	<0.2
Mine Drainage to WTP	3/13/14	293	0.62	23.3	7.5	13.65	7.77	521.6	3.3	<0.10	108	320	<2.5	9640	13.9	<0.2
Mine Drainage to WTP	4/9/14	512	1.45	57	8.7	11.19	7.96	556	12.9	0.13	178	386	2.7	6960	12.6	<0.2
Mine Drainage to WTP	5/19/14	123	0.14	<2.0	8.3	10.3	7.76	140.4	0.3	<0.10	32.3	204	<2.5	7750	10.3	<0.2
Mine Drainage to WTP	6/9/14	191	2.28	5.2	8.1	11.93	7.99	210.8	3.06	<0.10	52.2	120	<2.5	5490	7.22	<0.2
Mine Drainage to WTP	7/24/14	878	19	8.9	12.4	10.23	8.01	910	19.8	0.68	455	3110	17.8	53800	111	1.2
Mine Drainage to WTP	8/7/14	296	2.16	10.2	10.2	11.65	8.01	343.2	5.51	0.31	136	356	<2.5	6970	12	<0.2
Mine Drainage to WTP	9/3/14	286	0.84	20	9.4	11.75	7.76	337.3	4.64	<0.10	83.8	238	<2.5	7370	11.9	<0.2
Mine Drainage to WTP	10/23/14	183	0.99	<2.0	7.4	11.84	7.38	176.6	1.62	0.1	54	48.4	<2.5	2790	3.97	<0.2
Mine Drainage to WTP	11/6/14	295	2.4	37	8.9	11.86	8	408.9	7.6	<0.10	83	10.4	<2.5	1460	2.8	<0.2
Mine Drainage to WTP	12/3/14	194	0.32	9.6	6.6	12.45	7.53	205.2	1.24	<0.10	50.6	183	<2.5	4200	7.19	<0.2
Mine Drainage to WTP	1/15/15	185	0.27	3.9	7.4	12.13	7.03	193.7	0.71	<0.10	48.7	8.81	<2.5	1580	2.63	<0.2
Mine Drainage to WTP	2/11/15	303	1.02	20	7.2	12.77	7.47	330.9	5.81	<0.10	79.7	6.2	<2.5	1210	2.18	<0.2
Mine Drainage to WTP	3/12/15	147	0.22	<2.0	7	12.15	6.56	149.9	0.5	<0.10	42.9	38	<2.5	1660	2.82	<0.2
Mine Drainage to WTP	4/2/15	487	2.21	70	7.5	11.72	7.13	496.7	12.2	<0.10	109	5.96	<2.5	1910	1.89	<0.2
Mine Drainage to WTP	5/19/15	403	1.76	39	9.9	10.97	7.11	545	9.1	<0.10	124	110	<2.5	5060	9.03	<0.2
Mine Drainage to WTP	6/8/15	535	2.18	<50	10.8	11.22	6.65	604	11.1	0.14	156	7.03	<2.5	1220	2.18	<0.2
Mine Drainage to WTP	7/7/15	556	1.74	71.6	12.2	11.55	7.05	650	10.5	<0.10	168	120	<2.5	2210	4.2	<0.2
Mine Drainage to WTP	8/10/15	723	2.29	78	12.2	10.48	6.68	850	16.3	0.21	234	<0.10	<2.5	1890	3.83	<0.20
Mine Drainage to WTP	9/1/15	143	0.36	2.5	7.2	13.24	6.49	159	0.82	<0.10	35.1	131	<2.5	3350	4.72	<0.2
Mine Drainage to WTP	10/13/15	109	<0.10	<1.0	7.2	13.97	6.52	131.2	0.14	<0.10	26.8	108	<2.5	2390	4.07	<0.20
Mine Drainage to WTP	11/10/15	217	1.3	6.5	6.9	11.93	8.08	250.4	4.92	0.12	73.4	5.13	<2.5	5430	8.72	<0.20
Mine Drainage to WTP	12/14/15	145	0.16	<1.0	5.3	13.13	8.09	117.1	0.32	<0.10	33.2	30.1	<2.5	2110	3.51	<0.20
Mine Drainage to WTP	1/21/16	495	1.65	75	6.7	11.81	7.79	533	10	<0.10	126	17.9	<2.5	1610	3.16	<0.20
Mine Drainage to WTP	2/11/16	307	0.33	26	7	12.7	8.01	337.8	6.68	<0.050	80.4	15.5	<2.5	2300	3.89	<0.20
Mine Drainage to WTP	3/17/16	147	0.19	7.3	5.5	12.31	9.27	171	1.1	<0.10	58.3	5.13	10.4	984	1.64	<0.20
Mine Drainage to WTP	4/7/16	128	0.74	3	6.1	12.88	8.88	149.7	1.78	0.13	37	13.8	3.3	1780	1.93	<0.20
Mine Drainage to WTP	5/17/16	388	1.27	60	7.9	12.41	7.4	386.2	8.82	<0.10	77.4	27	<2.5	2350	4.07	<0.20
Mine Drainage to WTP	6/23/16	158	0.53	7.5	9.1	11.77	8.55	194.9	2.91	<0.10	63.2	12.4	3	1490	2.56	<0.20
Mine Drainage to WTP	7/19/16	488	2.28	92	12.1	10.85	8.21	497.1	12.2	<0.10	121	10.1	4.6	1300	2.43	<0.20
Mine Drainage to WTP	8/23/16	430	3.81	44	10.3	11.86	8.2	433.7	13	0.38	133	20.2	<2.5	1020	1.62	<0.20
Mine Drainage to WTP	9/22/16	129	<0.10	1.7	7.5	13.6	7.5	128.2	0.434	<0.050	33.3	33	<2.5	872	1.21	<0.20
Mine Drainage to WTP	10/5/16	487	1.71	70	7.9	12.21	7.63	467.7	12.5	<0.10	114	47.2	<2.5	1030	1.66	<0.20
Mine Drainage to WTP	11/17/16	188	0.22	18.8	5.1	12.58	8.04	179.2	2.4	<0.10	66.8	251	2.8	8980	15.6	0.96
Mine Drainage to WTP	12/21/16	624	1.67	79	8.9	10.92	7.77	685	17.8	<0.10	210	12.8	<2.5	2130	3.48	<0.20
Mine Drainage to WTP	1/11/17	193	0.16	2.5	6.3	12.76	7.62	170.2	0.72	<0.10	50.8	465	<2.5	10600	16.7	<0.20
Mine Drainage to WTP	2/9/17	646	0.79	11.6	6.6	11.94	7.79	229	3.35	0.11	74.1	11.3	<2.5	571	0.954	<0.20
Mine Drainage to WTP	3/20/17	162	0.47	4.9	8.2	11.72	10.4	195	2.01	<0.10	74	121	8.7	4820	8.71	<0.20
Mine Drainage to WTP	4/18/17	158	0.13	<2.0	8.7	10.2	7.56	217.3	0.31	<0.10	35.8	905	<2.5	9390	16.1	<0.20
Mine Drainage to WTP	5/16/17	198	0.781	2.1	7.4	14.4	7.98	167.2	0.3	<0.10	48.7	1760	11.5	39800	75.3	0.38
Mine Drainage to WTP	6/22/17	150	0.52	1.1	8.4	15.24	8.04	160.8	1.64	0.055	49.4	104	<2.5	3110	4.61	<0.20
Mine Drainage to WTP	7/26/17	146	0.12	1.2	10.4	11.07	10.89	271	0.527	<0.050	41.9	47.4	6.6	903	1.09	<0.20
Mine Drainage to WTP	8/21/17	141	<0.10	1.3	10.3	11.02	8.5	166.2	0.776	<0.050	48.9	189	<2.5	2830	4.76	<0.20
Mine Drainage to WTP	9/25/17	233	3.19	3.2	9.7	11.48	8.05	263.6	5.48	0.25	98	102	<2.5	2380	4.59	<0.20
Mine Drainage to WTP	10/17/17	203	0.97	208.4	8.6	10.09	7.17	208.4	0.76	<0.10	56.8	59.4	<2.5	1680	3.24	<0.20
Mine Drainage to WTP	11/9/17	216	0.62	13.9	6.1	12.81	7.71	209	1.77	<0.10	58.2	2740	17.6	61900	117	0.38
Mine Drainage to WTP	12/14/17	233	2.48	6.9	8.6	11.87	8.91	243.3	7.37	0.35	97.8	161	3.7	4390	7.3	<0.20
Mine Drainage to WTP	1/16/18	208	0.66	<2.0	7.7	11.95	8.27	139.2	2.41	<0.10	70.8	142	4	4150	6.5	<0.20
Mine Drainage to WTP	2/8/18	285	2.38	6	7.4	12.88	7.98	269.7	7.46	0.37	117	237	<2.5	8120	14.5	<0.20
Mine Drainage to WTP	3/27/18	469	4.48	9.7	8.5	11.43	7.96	449.9	18.3	0.65	199	92	<2.5	382	0.562	<0.20
Mine Drainage to WTP	4/16/18	189	0.19	<2.0	7.4	11.75	8.06	200	0.9	<0.10	74.9	21.3	<2.5	709	1.08	<0.20
Mine Drainage to WTP	5/24/18	128	<0.10	<2.0	7.2	12.54	8.07	128.06	0.35	<0.10	33.5	123	<2.5	2500	4.19	<0.20
Mine Drainage to WTP	6/25/18	300	2.03	5.9	10.4	11.49	7.98	300.4	7.42	0.33	135	602	<2.5	9810	18.2	<0.20
Mine Drainage to WTP	7/18/2018	237	0.92	<2.0	9.6	11.73	7.78	260	0.48	<0.10	87	38	<2.5	1330	1.96	<0.20
Mine Drainage to WTP	8/13/2018	285	1.49	<2.0	11.1	10.18	7.9	291.5	1.23	<0.10	114	300	3.1	6720	11.6	<0.20
Mine Drainage to WTP	9/20/2018	260	1.29	<2.0	11.1	10.15	7.67	273.4	0.95	<0.10	98.5	628	6.6	13800	26.5	<0.20
Mine Drainage to WTP	10/11/18	272	1.24	<2.0	10.5	7.82	<2.0	285.4	0.83	<0.10	116	18	<2.5	989	1.51	<0.20
Mine Drainage to WTP	11/13/18	219	0.82	<2.0	8.9	10.72	7.58	298	0.44	<0.10	70.5	75.5	<2.5	3960	6.21	<0.20
Mine Drainage to WTP	12/6/18	209	0.57	<2.0	8.2	11.85	6.67	210.4	0.5	<0.10	73	0.94	<2.5	551	0.895	<0.20
Dam Seepage Sump	9/25/13	1040	<0.10	2.8	10.4	6.25	7.22	1349	1.57	<0.10	605	0.63	<2.5	126	0.476	<0.2
Dam Seepage Sump	10/23/13	464	<0.10	<2.0	6	10.68	7.35	658.5	0.96	<0.10	272	23.2	<2.5	1290	4.72	<0.2
Dam Seepage Sump	11/11/13	754	0.24	4.2	3.4	11.35	8.72	607	2.35	<0.10	460	8.51	<2.5	327	1.23	<0.2
Dam Seepage Sump	12/11/13	1410	<0.10	4.2	8.7	7.47	7.48	1037	3.56	<0.10	598	3.44	<2.5	113	0.263	<0.2
Dam Seepage Sump	1/6/14	547	0.15	2.1	1.9	11.82	8.78	728.8	1.32	<0.10	301	1.64	<2.5	103	0.163	<0.2
Dam Seepage Sump	2/10/14	402	0.17	3	-0.1	15.01	8.13	266	1.23	<0.10	205	2.61	<2.5	120	0.182	<0.2
Dam Seepage Sump	3/12/14	166	<0.10	2	1.4	12.65	8.08	161.8	0.42	<0.10	71.5	6.44	<2.5	427	0.89	<0.2
Dam Seepage Sump	4/9/14	633	<0.10	4	4.4	7.99	7.67	527	1.84	<0.10	374	1.21	<2.5	28	0.08	<0.2
Dam Seepage Sump	5/19/14	563	<0.10	3.1	10	7.51	7.86	604	2.45	<0.10	291	4.				

Station Name	Collect Date	Hardness, Total mg/L	Dissolved Arsenic ug/L	Dissolved Cadmium ug/L	Dissolved Copper ug/L	Dissolved Lead ug/L	Dissolved Manganese ug/L	Dissolved Nickel ug/L	Dissolved Selenium ug/L	Dissolved Silver ug/L	Dissolved Zinc ug/L
Mine Drainage to WTP	9/25/13	597	<2.5	<0.02	<1.0	<0.16	2.1	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	10/23/13	194	<2.5	<0.02	2.9	0.2	21	1.9	1.8	<0.1	5.1
Mine Drainage to WTP	11/7/13	152	<2.5	<0.1	<1.0	<0.16	16.5	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	12/10/13	208	<2.5	<0.02	<1.0	<0.16	15	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	1/6/14	413	<2.5	<0.02	1.9	<0.16	192	<1.0	1.2	<0.1	4.3
Mine Drainage to WTP	2/10/14	414	<2.5	<0.02	<1.0	<0.16	92	<1.0	1.6	<0.1	<2.5
Mine Drainage to WTP	3/13/14	233	<2.5	<0.02	<1.0	<0.16	54.3	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	4/9/14	286	<2.5	<0.02	1.2	<0.16	71.1	<1.0	<1.0	<0.1	<2.5
Mine Drainage to WTP	5/19/14	136	<2.5	<0.02	<1.0	<0.16	42.5	<1.0	1.5	<0.1	<2.5
Mine Drainage to WTP	6/9/14	150	<2.5	<0.02	<1.0	<0.16	34.8	<1.0	1.9	<0.1	<2.5
Mine Drainage to WTP	7/24/14	853	<2.5	<0.02	1.2	<0.16	44.9	2.5	1.5	<0.1	<2.5
Mine Drainage to WTP	8/7/14	234	<2.5	<0.02	<1.0	<0.16	47.5	<1.0	2.3	<0.1	<2.5
Mine Drainage to WTP	9/3/14	214	<2.5	0.14	<1.0	<0.16	124	14.1	2.6	<0.1	8.3
Mine Drainage to WTP	10/23/14	141	<2.5	<0.02	<1.0	<0.16	51.5	<1.0	2.4	<0.1	<2.5
Mine Drainage to WTP	11/6/14	154	<2.5	<0.02	<1.0	<0.16	24	<1.0	2.1	<0.1	<2.5
Mine Drainage to WTP	12/3/14	164	<2.5	<0.02	<1.0	<0.16	41.5	<1.0	2.5	<0.1	<2.5
Mine Drainage to WTP	1/15/15	137	<2.5	<0.02	<1.0	<0.16	26.3	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	2/11/15	175	<2.5	<0.02	<1.0	<0.16	64.9	<1.0	2.3	<0.1	3.1
Mine Drainage to WTP	3/12/15	134	<2.5	<0.02	<1.0	<0.16	50.7	<1.0	2.6	<0.1	<2.5
Mine Drainage to WTP	4/2/15	185	<2.5	<0.02	<1.0	<0.16	107	<1.0	1.4	0.2	<2.5
Mine Drainage to WTP	5/19/15	229	<2.5	<0.02	<1.0	<0.16	36.2	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	6/8/15	239	<2.5	<0.02	<1.0	<0.2	45	<1.0	2.8	<0.1	<2.5
Mine Drainage to WTP	7/7/15	249	<2.5	<0.02	1.5	<0.16	43	1.1	2.5	<0.1	<2.5
Mine Drainage to WTP	8/10/15	312	<2.5	<0.020	2	<0.16	79.6	2.4	2	0.39	<2.5
Mine Drainage to WTP	9/1/15	121	<2.5	<0.02	<1.0	<0.16	26.2	<1.0	2.3	<0.1	2.6
Mine Drainage to WTP	10/13/15	113	<2.5	<0.020	<1.0	<0.16	20.1	<1.0	2.2	<0.10	<2.5
Mine Drainage to WTP	11/10/15	175	<2.5	<0.020	<1.0	<0.16	36.4	<1.0	2	<0.10	<2.5
Mine Drainage to WTP	12/14/15	114	<2.5	<0.020	<1.0	<0.16	11.2	<1.0	2.2	<0.10	<2.5
Mine Drainage to WTP	1/21/16	199	<2.5	<0.020	<1.0	<0.16	33	1.5	2.4	<0.10	<2.5
Mine Drainage to WTP	2/11/16	179	<2.5	<0.020	<1.0	<0.16	45.7	<1.0	1.4	0.27	<2.5
Mine Drainage to WTP	3/17/16	112	<2.5	<0.020	<1.0	<0.16	3	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	4/7/16	105	<2.5	<0.020	<1.0	<0.16	4.5	<1.0	1.4	<0.10	<2.5
Mine Drainage to WTP	5/17/16	167	<2.5	<0.020	1.1	<0.16	35.9	1.3	1.7	<0.10	<2.5
Mine Drainage to WTP	6/23/16	123	<2.5	<0.020	<1.0	<0.16	4.9	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	7/19/16	197	<2.5	0.029	2.9	0.24	20.4	1.1	1.9	<0.10	3.1
Mine Drainage to WTP	8/23/16	189	<2.5	<0.020	1.1	<0.16	31	<1.0	1.6	<0.10	3.2
Mine Drainage to WTP	9/22/16	105	<2.5	<0.020	<1.0	<0.16	16.8	<1.0	1.7	<0.10	<2.5
Mine Drainage to WTP	10/5/16		<2.5	<0.020	1.5	<0.16	48.6	1.4	1.8	0.43	2.5
Mine Drainage to WTP	11/17/16	206	<2.5	0.024	<1.0	<0.16	18.9	<1.0	1.5	<0.10	<2.5
Mine Drainage to WTP	12/21/16	259	<2.5	<0.020	<1.0	<0.16	28.8	1.7	1.9	<0.10	<2.5
Mine Drainage to WTP	1/11/17	190	<2.5	0.023	<1.0	<0.16	70.3	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	2/9/17	128	<2.5	<0.020	<1.0	<0.16	28.7	<2.0	1.5	<0.10	<2.5
Mine Drainage to WTP	3/20/17	186	<2.5	<0.020	<1.0	<0.16	<1.0	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	4/18/17	169	<2.5	0.052	<1.0	<0.16	36.4	<1.0	1.3	<0.10	<2.5
Mine Drainage to WTP	5/16/17	539	<2.5	<0.020	<1.0	<0.16	15.5	<1.0	1.6	<0.10	2.8
Mine Drainage to WTP	6/22/17	129	<2.5	<0.020	1.6	<0.16	19.8	<1.0	1.9	<0.10	<2.5
Mine Drainage to WTP	7/26/17	124	<2.5	<0.020	<1.0	<0.16	<1.0	<1.0	2	<0.10	<2.5
Mine Drainage to WTP	8/21/17	142	<2.5	<0.020	<1.0	<0.16	13.6	<1.0	1.6	<0.10	3.6
Mine Drainage to WTP	9/25/17	179	<2.5	<0.020	1.5	<0.16	3	<1.0	1.5	<0.10	3
Mine Drainage to WTP	10/17/17	163	<2.5	<0.020	1.3	<0.16	4.7	<1.0	1.6	<0.10	2.7
Mine Drainage to WTP	11/9/17	894	<2.5	<0.020	<1.0	<0.16	96.7	<1.0	1.6	<0.10	4.1
Mine Drainage to WTP	12/14/17	192	<2.5	<0.020	<1.0	<0.16	16.9	<1.0	1.8	<0.10	3.9
Mine Drainage to WTP	1/16/18	142	<2.5	0.022	8.8	0.49	5.9	<1.0	2	<0.10	7
Mine Drainage to WTP	2/8/18	255	<2.5	<0.020	<1.0	<0.16	45.6	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	3/27/18	253	<2.5	<0.020	<1.0	<0.16	40.4	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	4/16/18	146	<2.5	<0.020	<1.0	<0.16	19	<1.0	1.4	<0.10	<2.5
Mine Drainage to WTP	5/24/18	118	<2.5	<0.020	<1.0	<0.16	18.2	<1.0	1.7	<0.10	<2.5
Mine Drainage to WTP	6/25/18	283	<2.5	<0.020	<1.0	<0.16	25.9	<1.0	2.1	<0.10	<2.5
Mine Drainage to WTP	7/18/2018	182	<2.5	<0.020	1.1	<0.16	6.4	<1.0	1.5	<0.10	4.6
Mine Drainage to WTP	8/13/2018	245	<2.5	0.033	<1.0	<0.16	14.4	<1.0	1.6	<0.10	2.6
Mine Drainage to WTP	9/20/2018	312	<2.5	<0.020	1.2	<0.16	18.4	<1.0	1.5	<0.10	3.6
Mine Drainage to WTP	10/11/18	211	<2.5	<0.020	1.8	<0.16	10.2	<1.0	1.3	<0.10	5.4
Mine Drainage to WTP	11/13/18	177	<2.5	<0.020	1	<0.16	7.4	<1.0	1.6	<0.10	3.6
Mine Drainage to WTP	12/6/18	163	<2.5	0.261	1.4	<0.16	6.6	<1.0	1.6	<0.10	5.9
Dam Seepage Sump	9/25/13	697	<2.5	5.3	4	<0.16	119	46.1	2.1	<0.1	447
Dam Seepage Sump	10/23/13	289	<2.5	13.6	7.3	<0.16	343	67.3	1.1	<0.1	740
Dam Seepage Sump	11/11/13	507	<2.5	6.26	4.6	<0.16	723	56.1	2.1	<0.1	281
Dam Seepage Sump	12/11/13	685	<2.5	3.97	3.2	<0.16	53.6	34.5	2.8	<0.1	312
Dam Seepage Sump	1/6/14	359	<2.5	2.53	3.6	<0.16	513	24.2	2.9	<0.1	107
Dam Seepage Sump	2/10/14	267	<2.5	4.24	3.1	<0.16	329	29.2	1.4	<0.1	204
Dam Seepage Sump	3/12/14	118	<2.5	0.99	3.5	<0.16	135	11.3	1.3	<0.1	54.6
Dam Seepage Sump	4/9/14	415	<2.5	1.26	1.9	<0.16	244	12.1	<1.0	<0.1	117
Dam Seepage Sump	5/19/14	354	<2.5	2.47	3.8	<0.16	161	22.5	1.7	<0.1	119
Dam Seepage Sump	6/9/14	307	<2.5	14.2	4.5	<0.16	421	63.7	1.3	<0.1	880
Dam Seepage Sump	7/24/14	533	<2.5	2.8	3	<0.16	279	26.7	1.3	<0.1	298
Dam Seepage Sump	8/7/14	569	<2.5	3.04	2.9	<0.16	236	25.1	1.1	<0.1	311
Dam Seepage Sump	9/3/14	562	<2.5	2.9	3.1	<0.16	309	25.3	1.4	<0.1	305

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
Dam Seepage Sump	10/23/14	702	<0.10	3.2	7.9	5.27	7.19	592	1.54	<0.10	353	0.23	<2.5	13	<0.05	<0.2
Dam Seepage Sump	11/6/14	422	<0.13	2.5	7.8	7.7	7.57	622	0.95	<0.10	376	0.3	<2.5	<10	<0.05	<0.2
Dam Seepage Sump	12/3/14	782	0.13	3.4	6.2	6.5	7.35	677	1.56	<0.10	432	0.29	<2.5	<10	<0.05	<0.2
Dam Seepage Sump	1/15/15	505	<0.10	<2.0	5.8	7.61	7.34	451	0.53	<0.10	248	0.33	<2.5	16	0.059	<0.2
Dam Seepage Sump	2/11/15	671	0.21	2.9	4.2	6.1	7.28	548	0.77	<0.10	330	0.64	<2.5	36	0.233	<0.2
Dam Seepage Sump	3/12/15	627	0.18	3.5	4.2	7.08	6.9	485	0.98	<0.10	308	0.79	<2.5	10.5	0.137	<0.2
Dam Seepage Sump	4/2/15	686	0.2	3.8	5.4	7.7	7.15	537	0.74	<0.10	352	1.04	<2.5	12.1	0.138	<0.2
Dam Seepage Sump	5/19/15	804	0.21	4.7	8.8	5.43	6.88	729	1.83	<0.10	435	0.56	<2.5	10	0.099	<0.2
Dam Seepage Sump	6/8/15	799	0.21	3.1	7.7	6.6	7.02	693	0.88	<0.10	428	1.74	<2.5	350	1.65	<0.2
Dam Seepage Sump	7/7/15	879	0.27	3.9	9.3	5.39	7.21	800	0.95	<0.10	528	0.67	<2.5	30	0.115	<0.2
Dam Seepage Sump	8/10/15	981	0.11	2.8	8.8	5.65	6.75	807	0.66	<0.10	536	0.36	<2.5	<10	<0.05	<0.20
Dam Seepage Sump	9/1/15	893	<0.10	2.2	11.1	8.62	6.55	795	0.47	<0.10	452	1.73	<2.5	37	0.076	<0.2
Dam Seepage Sump	10/13/15	501	<0.10	2	8.3	8.32	6.89	475.5	1.29	<0.10	241	1.09	<2.5	47	0.102	<0.20
Dam Seepage Sump	11/10/15	602	<0.10	2.6	7.2	965.8	7.43	477.2	1.75	<0.10	306	1.39	<2.5	28	0.056	<0.20
Dam Seepage Sump	12/14/15	592	0.14	2.4	4.2	7.27	7.31	439.5	1.01	<0.10	299	0.39	<2.5	19	0.094	<0.20
Dam Seepage Sump	1/21/16	552	0.12	2.2	5.3	6.6	7.22	482	0.78	<0.10	268	0.87	<2.5	292	1.62	<0.20
Dam Seepage Sump	2/11/16	472	<0.10	3	5	9.1	7.58	426.9	1.25	<0.050	226	1.16	<2.5	57	0.112	<0.20
Dam Seepage Sump	3/17/16	595	<0.10	4.2	5	8.24	7.84	551	1.56	<0.10	313	0.53	<2.5	15	0.11	<0.20
Dam Seepage Sump	4/7/16	655	0.16	4.5	5.2	7.37	7.5	537	1.4	<0.10	323	1.14	<2.5	35	0.179	<0.20
Dam Seepage Sump	5/17/16	634	<0.10	2.6	6.5	7.01	7.59	512	1.54	<0.10	332	1.32	<2.5	53	0.273	<0.20
Dam Seepage Sump	6/23/16	748	<0.10	3.4	8.1	5.62	7.23	678	1.89	<0.10	421	0.99	<2.5	<10	0.153	<0.20
Dam Seepage Sump	7/18/16	825	0.18	3.5	9.7	5.92	7.12	667	1.77	<0.10	467	0.99	<2.5	<10	0.129	<0.20
Dam Seepage Sump	8/23/16	841	<0.10	2.2	8.7	6.83	7.09	638	0.61	<0.10	460	1.21	<2.5	15	0.139	<0.20
Dam Seepage Sump	9/22/16	584	<0.10	1.7	9	6.55	7.13	518	0.373	<0.050	126	1.37	<2.5	36	0.283	<0.20
Dam Seepage Sump	10/5/16	752	0.61	2.2	8.4	5.49	7.35	598	0.52	<0.10	390	2.19	<2.5	12	0.227	<0.20
Dam Seepage Sump	11/17/16	584	<0.10	<2.0	6	7.26	7.35	402.8	0.38	<0.10	338	1.29	<2.5	13	0.197	<0.20
Dam Seepage Sump	12/21/16	683	<0.10	4.2	7.2	6.78	7.36	634	1.06	<0.10	410	11.1	<2.5	341	2.05	<0.20
Dam Seepage Sump	1/12/17	510	<0.10	3.4	3.6	10.29	7.94	384.8	0.815	<0.050	292	7.23	<2.5	224	1.32	<0.20
Dam Seepage Sump	2/9/17	642	0.13	2.5	3.9	9.65	7.29	439.8	0.52	<0.10	281	2.69	<2.5	<10	0.278	<0.20
Dam Seepage Sump	3/20/17	836	0.18	5.1	5.3	4.72	7.57	691	1.16	<0.10	468	1.98	<2.5	11	0.186	<0.20
Dam Seepage Sump	4/18/17	229	<0.10	<2.0	2.5	12.69	7.69	194.1	0.21	<0.10	108	7	<2.5	209	1.09	<0.20
Dam Seepage Sump	5/16/17	648	0.061	3.3	8.6	6.12	7.04	511	1.66	<0.10	325	1.29	<2.5	14	0.15	<0.20
Dam Seepage Sump	6/22/17	597	0.13	3	10.5	9.56	7.26	613	1.01	<0.10	354	3.13	<2.5	48	0.414	<0.20
Dam Seepage Sump	7/26/17	845	<0.10	3.3	7.7	5.68	7.59	739	1.26	<0.10	438	1.87	<2.5	24	0.295	<0.20
Dam Seepage Sump	8/21/17	323	<0.10	<1.0	12.7	7.41	6.62	350.1	0.157	<0.050	205	26	<2.5	1060	7.36	<0.20
Dam Seepage Sump	9/25/17	625	<0.10	2.1	9.1	6.6	7.32	597	0.55	<0.10	382	1.51	<2.5	14	0.234	<0.20
Dam Seepage Sump	10/17/17	560	<0.10	<2.0	7.6	7.03	7.42	495.5	0.47	<0.10	295	1.68	<2.5	56	0.567	<0.20
Dam Seepage Sump	11/9/17	666	<0.10	<2.0	7	6.37	7.4	610	0.58	<0.10	180	1.98	<2.5	24	0.296	<0.20
Dam Seepage Sump	12/14/17	119	<0.10	<2.0	3.8	12.05	8.05	113.3	<0.10	<0.10	74.3	12.4	<2.5	532	3.75	<0.20
Dam Seepage Sump	1/16/18	347	<0.10	<2.0	4.5	9.24	7.51	236.6	0.67	<0.10	187	2.45	<2.5	55	0.186	<0.20
Dam Seepage Sump	2/8/18	663	0.26	5.2	6.1	5.78	7.52	513	3.6	<0.10	345	3.44	<2.5	24	0.413	<0.20
Dam Seepage Sump	3/27/18	487	<0.10	7.9	3.6	8.02	7.4	404.4	1.72	<0.10	245	1.32	<2.5	<10	0.159	<0.20
Dam Seepage Sump	4/16/18	164	<0.10	<2.0	2.6	14.01	7.46	151.9	0.15	<0.10	103	1.21	<2.5	85	0.122	<0.20
Dam Seepage Sump	5/24/18	545	<0.10	<5.0	10.3	9.75	9.49	488	1.22	<0.25	318	234	15.2	5590	11.8	<0.20
Dam Seepage Sump	6/25/18	297	0.21	6.6	7.5	6.19	7.27	716	11.2	<0.25	495	1.7	<2.5	18	0.233	<0.20
Dam Seepage Sump	7/18/18	998	0.17	7.5	8.6	5.04	7.23	844	15	0.11	527	1.64	<2.5	25	0.214	<0.20
Dam Seepage Sump	8/13/18	1210	0.73	14.6	12.1	8.21	9.04	1146	48	0.74	649	2.42	<2.5	558	0.102	<0.20
Dam Seepage Sump	9/20/18	806	0.34	7.9	10.3	8.05	11.53	946	<0.25	1.25	433	10.1	10.6	175	0.135	<0.20
Dam Seepage Sump	10/11/18	1130	0.15	8.7	8.2	8.38	7.59	998	34.3	<0.10	621	5.26	3.4	200	0.322	<0.20
Dam Seepage Sump	11/13/18	975	0.1	8.4	7.5	7.94	7.08	820	23.1	0.11	593	1.2	<2.5	30	0.129	<0.20
Dam Seepage Sump	12/06/18	920	<0.10	7.8	7.4	8.29	7.22	755	10.8	<0.10	540	1.42	<2.5	<10	0.108	<0.20
GPPTP	9/30/13	1210	0.23	2.5	13.8	6.77	8.43	1420	0.55	<0.10	794	1.57	<2.5	1340	0.328	<0.2
GPPTP	10/23/13	532	0.38	15.7	6.9	10.62	7.56	480.5	0.56	<0.10	338	1.19	<2.5	330	0.117	<0.2
GPPTP	11/11/13	750	1.12	21.5	7.5	8.75	7.34	703	2.06	<0.10	516	0.12	<2.5	25	<0.05	<0.2
GPPTP	4/22/14	270	<0.10	10.2	10	9.19	7.41	411.5	0.205	<0.050	150	0.85	<2.5	96	<0.05	<0.2
GPPTP	6/4/14	455	<0.10	31	11.1	8.37	6.27	464.3	1.53	<0.10	248	1.61	<2.5	190	0.382	<0.2
GPPTP	7/24/14	742	0.1	38	18.9	6.4	9.6	798	0.19	<0.10	421	2.38	<2.5	160	0.102	<0.2
GPPTP	8/11/14	602	0.26	8.7	15.4	8.56	7.92	629	<0.10	<0.10	343	12.8	<2.5	132	1.04	<0.2
GPPTP	9/18/14	613	0.18	13	20.2	6	9.27	725	0.12	<0.10	356	25.3	<2.5	166	0.398	<0.2
GPPTP	10/27/14	972	0.2	130	17.3	8.8	8.92	820	0.25	<0.10	296	2.65	<2.5	79	0.072	<0.2
GPPTP	1/26/15	244	<0.10	19	5.3	13.08	7.62	222.7	0.11	<0.10	121	12.5	<2.5	655	1.47	<0.2
GPPTP	3/16/15	376	<0.10	39	2	14.76	5.9	247.2	0.32	<0.10	137	13.4	<2.5	342	1.01	<0.2
GPPTP	4/13/15	466	<0.10	59	6.9	12.6	7.11	408.9	0.25	<0.10	182	3.07	<2.5	220	0.366	<0.2
GPPTP	5/18/15	573	0.21	11.9	19.9	7.6	6.63	667	0.34	<0.10	326	1.04	<2.5	59	0.1	<0.2
GPPTP	6/4/15	514	0.18	24	14.4	9.7	6.2	5.81	0.97	<0.10	283	28.5	<2.5	232	1.03	<0.2
GPPTP	7/13/15	511	0.13	6.4	16.2	9.38	6.5	577	0.11	<0.10	152	4.8	<2.5	124	0.528	<0.2
GPPTP	8/17/15	531	0.13	9.6	17.2	9.33	6.98	590	0.29	<0.10	308	3.05	<2.5	118	0.335	<0.20
GPPTP	9/1/15	351	<0.10	15.6	9.4	11.58	6.66	366.5	<0.10	<0.10	188	46.4	<2.5	969	2.44	<0.2
GPPTP	10/12/15	351	<0.10	33.1	8.5	11.82	6.81	317.8	<0.10	<0.10	152	6.98	<2.5	570	1.28	<0.20
GPPTP	11/4/15	288	<0.10	18.2	6.3	12.56	6.29	330.3	0.11	<0.10	146	6.2	<2.5	393	1.54	<0.20
GPPTP	12/15/15	511	0.14	22	8.2	11.4	6.73	464	0.11	<0.10	249	5.68	<2.5	95.8	0.548	<0.2
GPPTP	1/21/16	647	<0.10	25.9	10.7	9.42	6.53	615	0.2	<0.10	322	1.49	<2.5	24	0.131	<0.20
GPPTP	2/18/16	460	0.41	3.9	8.2	10.77	6.58	415.7	0.17	<0.10	262	1.14	<2.5	19	0.198	<0.20
GPPTP	3/24/16	390	0.19	16.3	14.3	8.35	6.35	350.9	0.17	<0.10	211	3.8	<2.5	46	1.58	<0.20
GPPTP	4/7/16	365	0													

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dam Seepage Sump	10/23/14	480	<2.5	1.9	2.4	<0.16	185	18.4	<1.0	<0.1	199
Dam Seepage Sump	11/6/14	494	<2.5	1.8	1.7	<0.16	350	15.2	1.1	<0.1	167
Dam Seepage Sump	12/3/14	546	<2.5	1.78	1.7	<0.16	366	14.4	1.3	<0.1	164
Dam Seepage Sump	1/15/15	352	<2.5	0.8	1.3	<0.16	321	7.8	<1.0	<0.1	72.9
Dam Seepage Sump	2/11/15	457	<2.5	1.28	1.4	<0.16	558	11.2	<1.0	<0.1	122
Dam Seepage Sump	3/12/15	437	<2.5	1.18	1.3	<0.16	751	11.6	<1.0	<0.1	119
Dam Seepage Sump	4/2/15	437	<2.5	1.27	1.2	<0.16	680	11.1	<1.0	<0.1	124
Dam Seepage Sump	5/19/15	556	<2.5	1.9	2	<0.16	534	14.4	<1.0	<0.1	197
Dam Seepage Sump	6/8/15	554	<2.5	2.2	1.7	<0.16	770	19.7	1.5	<0.1	235
Dam Seepage Sump	7/7/15	622	<2.5	2.58	2	<0.16	586	22.8	1	<0.1	280
Dam Seepage Sump	8/10/15	660	<2.5	2.48	2	<0.16	388	21.2	1.4	<0.10	265
Dam Seepage Sump	9/1/15	578	<2.5	2.87	2.6	<0.16	295	18.9	1.6	<0.1	265
Dam Seepage Sump	10/13/15	364	<2.5	0.831	1.9	<0.16	214	9.4	<1.0	<0.10	75.3
Dam Seepage Sump	11/10/15	412	<2.5	0.978	2.2	<0.16	69.1	8.5	1	<0.10	88.6
Dam Seepage Sump	12/14/15	402	<2.5	1.14	1.7	<0.16	260	8.5	1.1	<0.10	110
Dam Seepage Sump	1/21/16	385	<2.5	0.959	1.6	<0.16	480	7.5	1.1	<0.10	88
Dam Seepage Sump	2/11/16	356	<2.5	0.749	1.6	<0.16	239	6.8	<1.0	<0.10	74.2
Dam Seepage Sump	3/17/16	429	<2.5	1	1.2	<0.16	301	8.2	1	<0.10	88.9
Dam Seepage Sump	4/7/16	418	<2.5	0.944	1.6	<0.16	434	8.3	1.2	<0.10	93
Dam Seepage Sump	5/17/16	439	<2.5	1.05	1.8	<0.16	248	11.9	1.4	<0.10	106
Dam Seepage Sump	6/23/16	564	<2.5	1.73	2.1	<0.16	297	14.3	1.4	<0.10	181
Dam Seepage Sump	7/18/16	564	<2.5	1.57	2.2	<0.16	241	13.8	1.8	<0.10	174
Dam Seepage Sump	8/23/16	543	<2.5	2.04	2.1	<0.16	282	15.5	2.2	<0.10	193
Dam Seepage Sump	9/22/16	432	<2.5	1.21	2.2	<0.16	276	10	1.3	<0.10	114
Dam Seepage Sump	10/5/16	555	<2.5	1.6	2.1	<0.16	409	11.8	1.8	<0.10	144
Dam Seepage Sump	11/17/16	406	<2.5	0.874	1.3	<0.16	259	6.9	1.6	<0.10	72.8
Dam Seepage Sump	12/21/16	431	<2.5	3.23	2.5	<0.16	441	21	<1.0	<0.10	305
Dam Seepage Sump	1/12/17	368	<2.5	3.37	2.1	<0.16	262	25.2	<1.0	<0.10	334
Dam Seepage Sump	2/9/17	361	<2.5	0.6	1.1	<0.16	340	5	1.2	<0.10	52.7
Dam Seepage Sump	3/20/17	537	<2.5	0.972	1.5	<0.16	635	5.6	<1.0	<0.10	115
Dam Seepage Sump	4/18/17	140	<2.5	1.98	1.8	<0.16	140	16.3	<1.0	<0.10	181
Dam Seepage Sump	5/16/17	442	<2.5	0.985	1.5	<0.16	267	7.6	<1.0	<0.10	95
Dam Seepage Sump	6/22/17	429	<2.5	1.45	2.2	<0.16	457	13.5	1.3	<0.10	124
Dam Seepage Sump	7/26/17	595	<2.5	1.54	1.4	<0.16	361	13.1	2.2	<0.10	151
Dam Seepage Sump	8/21/17	228	<2.5	20.9	15	<0.16	689	103	1.4	<0.10	1840
Dam Seepage Sump	9/25/17	482	<2.5	1.51	1.9	<0.16	299	10.8	2.4	<0.10	145
Dam Seepage Sump	10/17/17	382	<2.5	0.894	1.6	<0.16	279	7	2.2	<0.10	83
Dam Seepage Sump	11/9/17	453	<2.5	0.961	1.6	<0.16	297	7	1.7	<0.10	92.5
Dam Seepage Sump	12/14/17	88.5	<2.5	5.45	6.4	<0.16	188	35.8	<1.0	<0.10	534
Dam Seepage Sump	1/16/18	222	<2.5	0.273	1.9	<0.16	215	2.9	<1.0	<0.10	30.3
Dam Seepage Sump	2/8/18	442	<2.5	0.675	1.1	<0.16	330	3.7	<1.0	<0.10	77.3
Dam Seepage Sump	3/27/18	330	<2.5	0.359	<1.0	<0.16	297	3.5	1.2	<0.10	42.7
Dam Seepage Sump	4/16/18	112	<2.5	2.12	1.4	<0.16	148	20.2	<1.0	<0.10	228
Dam Seepage Sump	5/24/18	404	6	0.135	2.2	<0.16	180	10.3	12.6	<0.10	3.9
Dam Seepage Sump	6/25/18	585	<2.5	1.23	2.7	<0.16	325	8.1	3.8	<0.10	103
Dam Seepage Sump	7/18/18	577	<2.5	1.6	2.4	<0.16	349	11	3.6	<0.10	126
Dam Seepage Sump	8/13/18	638	<2.5	12.9	21.9	<0.16	255	76	9.1	<0.10	76.4
Dam Seepage Sump	9/20/18	467	<2.5	<0.020	15.7	<0.16	<1.0	3.4	3.9	<0.10	2.6
Dam Seepage Sump	10/11/18	646	<2.5	2.6	4.8	<0.16	197	15	3.3	<0.10	203
Dam Seepage Sump	11/13/18	601	<2.5	1.63	2.3	<0.16	293	9.7	1.9	<0.10	131
Dam Seepage Sump	12/06/18	555	<2.5	1.29	2	<0.16	199	9.3	1.4	<0.10	108
GPPTP	9/30/13	793	<2.5	1.9	1.4	<0.16	808	5	2.9	<0.1	8
GPPTP	10/23/13	349	<2.5	0.13	1.4	<0.16	43.3	5.1	1.3	<0.1	3.8
GPPTP	11/11/13	531	<2.5	0.23	1.5	<0.16	187	9.9	1.7	<0.1	9.5
GPPTP	4/22/14	186	<2.5	3.6	2.1	<0.16	84.7	15.1	1.7	<0.1	189
GPPTP	6/4/14	279	<2.5	1.47	3.9	<0.16	57.2	11.1	1.1	<0.1	109
GPPTP	7/24/14	455	<2.5	0.43	3.2	<0.16	171	5.8	2.1	<0.1	24.4
GPPTP	8/11/14	417	<2.5	0.12	<1.0	<0.16	564	6.2	1.8	<0.1	5.8
GPPTP	9/18/14	425	<2.5	<0.02	1.7	<0.16	6.4	<1.0	1.3	<0.1	<2.5
GPPTP	10/27/14	550	<2.5	0.08	2.5	<0.16	10	1.9	<1.0	<0.1	6.3
GPPTP	1/26/15	181	<2.5	2.4	1.5	<0.16	121	18.1	<1.0	<0.1	150
GPPTP	3/16/15	249	<2.5	1.67	1.1	<0.16	149	12.1	<1.0	<0.1	123
GPPTP	4/13/15	283	<2.5	0.77	1.6	<0.16	42.7	4.2	<1.0	<0.1	62
GPPTP	5/18/15	378	<2.5	0.55	2.2	<0.16	176	4.4	1.3	<0.1	21.4
GPPTP	6/4/15	371	<2.5	0.64	3	<0.16	147	5.1	1.1	<0.1	36.7
GPPTP	7/13/15	335	<2.5	1.09	3.1	<0.16	208	10.8	1.4	<0.1	51.6
GPPTP	8/17/15	350	<2.5	1.61	2.3	<0.16	58.6	5.4	<1.0	<0.10	80
GPPTP	9/1/15	255	<2.5	1.27	1.9	<0.16	73.3	21.5	1.8	<0.1	23.4
GPPTP	10/12/15	220	<2.5	5.04	6.6	<0.16	185	23.8	<1.0	<0.10	456
GPPTP	11/4/15	203	<2.5	5.62	2.8	<0.16	251	33	<1.0	<0.10	565
GPPTP	12/15/15	362	<2.5	2.68	3	<0.16	572	29.4	1.1	<0.1	211
GPPTP	1/21/16	430	<2.5	0.882	2.1	<0.16	209	12.3	<1.0	<0.10	55.8
GPPTP	2/18/16	321	<2.5	0.159	1.6	<0.16	695	8.5	<1.0	<0.10	24.9
GPPTP	3/24/16	251	<2.5	0.058	<1.0	<0.16	182	3	<1.0	<0.10	13.4
GPPTP	4/7/16	226	<2.5	0.324	1.8	<0.16	108	3.8	1	<0.10	26.8
GPPTP	5/19/16	335	<2.5	0.11	2.9	<0.16	67.1	2.2	1.1	<0.10	11.6
GPPTP	6/16/16	317	<2.5	0.1	2	<0.16	20.5	14.7	<1.0	<0.10	15.4
GPPTP	7/21/16	230	<2.5	0.166	3	<0.16	43.1	4	1.2	<0.10	15.6

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GPPTP	8/9/16	336	<2.5	0.187	3	<0.16	9.1	2	<1.0	<0.10	9.9
GPPTP	9/20/16	239	<2.5	0.55	3.1	<0.16	53.1	5.1	<1.0	<0.10	38.5
GPPTP	10/6/16	314	<2.5	0.33	1.9	<0.16	29	4.5	1.1	<0.10	31.5
GPPTP	11/29/16	270	<2.5	1.97	2.3	<0.16	238	16.5	<1.0	<0.10	166
GPPTP	12/28/16	163	<2.5	2.94	3.2	<0.16	276	15	<1.0	<0.10	288
GPPTP	1/25/17	126	<2.5	0.091	<1.0	<0.16	151	1.4	<1.0	<0.10	<2.5
GPPTP	4/18/17	410	<2.5	0.092	7.6	<0.16	20.5	10.6	1.6	<0.10	10
GPPTP	5/16/17	815	<2.5	0.246	2.1	<0.16	100	4.6	<1.0	<0.10	32.4
GPPTP	6/22/17	267	<2.5	0.037	2.5	<0.16	7.3	15.8	<1.0	<0.10	5.3
GPPTP	7/26/17	272	<2.5	0.709	2	<0.16	300	33	<1.0	<0.10	40.2
GPPTP	8/28/17	174	<2.5	0.232	1.4	<0.16	168	4.7	<1.0	<0.10	15.8
GPPTP	9/25/17	366	<2.5	0.632	2.3	<0.16	30.3	5	<1.0	<0.10	159
GPPTP	10/26/17	149	<2.5	0.747	1.4	<0.16	123	4.7	<1.0	<0.10	45.5
GPPTP	11/9/17	255	<2.5	0.452	1.8	<0.16	31.3	2.3	<1.0	<0.10	25.9
GPPTP	12/19/17	152	<2.5	1.09	1.2	<0.16	101	7.7	<1.0	<0.10	73
GPPTP	4/16/18	280	<2.5	0.25	<1.0	<0.16	149	4.6	<1.0	<0.10	14.1
GPPTP	6/25/18	687	<2.5	1.82	2.7	<0.16	172	17.9	3.1	<0.10	216
GPPTP	7/18/2018	1330	<2.5	0.053	8	<0.16	20.5	5.3	5.9	<0.10	14.7
GPPTP	8/13/2018	968	<2.5	0.047	<1.0	<0.16	24	1.2	1.5	<0.10	14.1
GPPTP	9/17/2018	1810	<2.5	0.033	1.4	<0.16	19.7	4.8	<1.0	<0.10	8.2
GPPTP	10/15/18	411	<2.5	0.023	<1.0	<0.16	15.4	<1.0	1.5	<0.10	6
GPPTP	11/13/18	168	<2.5	0.103	1.6	<0.16	26.3	5	<1.0	<0.10	11.4
GPPTP	12/6/18	797	<2.5	0.274	<1.0	<0.16	1700	12.2	1.6	<0.10	27.8
GP Western Seep	9/30/13	815	<2.5	316	72.2	<0.16	6580	721	3.4	<0.1	17000
GP Eastern Seep	9/30/13	223	<2.5	16.4	158	0.91	1030	197	1.5	<0.1	1780
GP Western Seep	9/3/14	603	<2.5	84.7	12.7	<0.16	3340	391	1.5	<0.1	6570
GP Eastern Seep	9/3/14	171	<2.5	2.4	3.6	<0.16	221	42.8	<1.0	<0.1	213
GP Western Seep	9/1/15	360	<2.5	35.8	4.3	<0.16	1090	197	1.2	<0.1	2830
GP Eastern Seep	9/1/15	301	<2.5	13.6	208	0.53	1040	202	3.3	<0.1	1490
GP Western Seep	9/22/16	157	<2.5	35.9	55	0.22	800	134	<1.0	<0.10	3150
GP Eastern Seep	9/22/16	97.8	<2.5	1.24	7	<0.16	97.1	23.9	<1.0	<0.10	106
GP Western Seep	9/25/17	217	<2.5	19.9	6.1	<0.16	646	102	1.1	<0.10	1880
GP Eastern Seep	9/25/17	180	<2.5	3.71	10.5	<0.16	212	54.8	1.2	<0.10	338
TTF Pond	9/25/13	341	<2.5	0.08	<1.0	<0.16	225	3.9	<1.0	<0.1	4.1
TTF Pond	10/23/13	318	<2.5	0.02	1.1	<0.16	187	3.7	<1.0	<0.1	2.6
TTF Pond	12/10/13	338	<2.5	0.02	1.1	<0.16	132	2.3	<1.0	<0.1	3.1
TTF Pond	1/6/14	247	<2.5	<0.02	<1.0	<0.16	121	1.4	<1.0	<0.1	23.8
TTF Pond	2/10/14	343	<2.5	0.03	<1.0	<0.16	141	1.7	<1.0	<0.1	3.3
TTF Pond	3/12/14	359	<2.5	<0.02	<1.0	<0.16	164	1.5	<1.0	<0.1	<2.5
TTF Pond	4/9/14	377	<2.5	<0.02	<1.0	<0.16	187	1.3	<1.0	<0.1	<2.5
TTF Pond	5/19/14	339	<2.5	0.05	<1.0	<0.16	190	1.8	<1.0	<0.1	4.2
TTF Pond	6/9/14	337	<2.5	0.05	<1.0	<0.16	185	1.8	<1.0	<0.1	3.3
TTF Pond	7/24/14	244	<2.5	0.07	1.5	<0.16	108	2.7	<1.0	<0.1	4
TTF Pond	10/23/14	332	<2.5	<0.02	<1.0	<0.16	255	1.7	<1.0	<0.1	<2.5
TTF Pond	1/15/15	250	<2.5	<0.02	1.3	<0.16	241	<1.0	<1.0	<0.1	3.1
TTF Pond	4/2/15	318	<2.5	<0.02	<1.0	<0.16	170	1.1	<1.0	<0.1	<2.5
TTF Pond	7/7/15	381	<2.5	0.02	<1.0	<0.16	128	1.1	<1.0	<0.1	2.5
TTF Pond	10/13/15	393	<2.5	<0.020	1.4	<0.16	119	3.6	<1.0	<0.10	<2.5
TTF Pond	1/21/16	338	<2.5	<0.020	<1.0	<0.16	114	1.1	<1.0	<0.10	<2.5
TTF Pond	4/7/16	345	<2.5	<0.020	<1.0	<0.16	135	<1.0	<1.0	<0.10	<2.5
TTF Pond	7/18/16	368	<2.5	<0.020	1	<0.16	120	1.1	<1.0	<0.10	<2.5
TTF Pond	10/5/16	418	<2.5	0.029	1.1	<0.16	180	1.4	<1.0	<0.10	2.7
TTF Pond	1/11/17	418	<2.5	<0.020	<1.0	<0.16	133	1.1	<1.0	<0.10	<2.5
TTF Pond	4/18/17	349	<2.5	0.07	<1.0	<0.16	161	1.1	<1.0	<0.10	<2.5
TTF Pond	7/26/17	402	<2.5	<0.020	<1.0	<0.16	99.7	<1.0	<1.0	<0.10	3.4
TTF Pond	10/17/17	393	<2.5	<0.020	<1.0	<0.16	186	1.4	<1.0	<0.10	3
TTF Pond	1/16/18	385	<2.5	<0.020	<1.0	<0.16	169	1.3	<1.0	<0.10	<2.5
TTF Pond	4/16/18	432	<2.5	<0.020	<1.0	<0.16	179	1.1	<1.0	<0.10	<2.5
TTF Pond	7/18/18	402	<2.5	<0.020	<1.0	<0.16	109	1	<1.0	<0.10	6.3
TTF Pond	10/11/18	499	<2.5	<0.020	3.4	0.18	149	1.1	<1.0	<0.10	6.5
ARD-SUMP	9/24/13	1140	<2.5	86.4	12.8	<0.16	26000	600	3.3	<0.1	7710
ARD-SUMP	10/1/13	948	<2.5	55.8	6.8	<0.16	25200	446	2.6	<0.1	5630
ARD-SUMP	10/8/13	1050	<2.5	25.5	5.7	<0.16	26900	202	2.3	<0.1	2410
ARD-SUMP	10/15/13	1030	<2.5	24.4	5.4	<0.16	22400	237	2.7	<0.1	1820
ARD-SUMP	10/22/13	1040	<2.5	21.7	3.6	<0.16	24600	189	2	<0.1	2070
ARD-SUMP	10/29/13	815	<2.5	15.9	4.7	<0.16	17400	166	1.1	<0.1	1200
ARD-SUMP	11/5/13	540	<2.5	16.2	4.9	<0.16	8600	122	1.9	<0.1	1610
ARD-SUMP	11/12/13	1110	<2.5	17.8	5.8	<0.16	21600	143	<1.0	<0.1	1730
ARD-SUMP	5/22/14	939	<2.5	3.54	3.2	<0.2	10400	73.4	2.6	<0.1	175
ARD-SUMP	6/3/14	478	<2.5	1.35	2.9	<0.16	7180	21.2	1.6	<0.1	75.5
ARD-SUMP	6/10/14	912	<2.5	2.97	2.1	<0.16	22400	65.5	2.2	<0.1	211
ARD-SUMP	6/17/14	402	<2.5	0.71	1.8	<0.16	4720	11.9	1.1	<0.1	36.8
ARD-SUMP	6/23/14	689	<2.5	2.52	1.3	<0.16	7990	36	3.3	<0.1	141
ARD-SUMP	7/1/14	936	<2.5	1.97	1.7	<0.16	20500	52.1	1.7	<0.1	124
ARD-SUMP	7/8/14	864	<2.5	2.13	3.1	<0.16	6500	32.8	4.4	<0.1	104
ARD-SUMP	7/15/14	1070	<2.5	2.9	2	<0.16	16700	55.6	1.4	<0.1	120
ARD-SUMP	7/22/14	924	<2.5	1.37	1.8	<0.16	25300	63.1	2.3	<0.1	118
ARD-SUMP	7/29/14	498	<2.5	0.64	1.7	<0.16	2960	8.4	1.2	<0.1	17.7

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ARD-SUMP	8/5/14	813	<2.5	0.3	1.1	<0.16	27500	25.6	2.1	<0.1	16.8
ARD-SUMP	8/12/14	825	3.2	0.72	1.8	<0.2	13900	29.9	2	<0.1	95
ARD-SUMP	8/19/14	892	<2.5	0.3	1.7	<0.16	18300	22.4	1.6	<0.1	39.8
ARD-SUMP	8/26/14	641	<2.5	0.37	1.7	<0.16	8670	12.3	1.5	<0.1	21.7
ARD-SUMP	9/2/14	821	<2.5	0.35	1.4	<0.16	19900	24.9	1.7	<0.1	49.8
ARD-SUMP	9/9/14	951	3.1	0.24	1.2	<0.16	20100	25.1	1.2	<0.1	61.1
ARD-SUMP	9/16/14	554	<2.5	0.24	1	<0.16	12900	13.6	1.4	<0.1	29.8
ARD-SUMP	9/23/14	852	<2.5	0.4	1.2	<0.16	11800	18.3	1.9	<0.1	42.1
ARD-SUMP	9/30/14	518	<2.5	0.74	1.5	<0.16	4060	12	<1.0	<0.1	36.6
ARD-SUMP	10/7/14	766	<2.5	0.62	1.3	<0.16	9410	22	1.5	0.2	74.2
ARD-SUMP	10/13/14	724	<2.5	0.43	1.2	<0.16	10500	21.6	1.4	<0.1	72.6
ARD-SUMP	10/21/14	781	3.3	0.3	1.5	<0.16	13300	27.7	1.2	<0.1	87.4
ARD-SUMP	10/28/14	755	<2.5	0.24	1.3	<0.2	20700	27.8	1.8	0.1	71.3
ARD-SUMP	11/4/14	412	<2.5	0.53	<1.0	<0.16	6110	10.9	<1.0	<0.1	39
ARD-SUMP	11/11/14	826	2.7	0.25	1.1	<0.16	18500	29.2	2	0.2	76.7
ARD-SUMP	11/18/14	805	<2.5	1.1	1.4	<0.2	23500	36	1.8	0.2	126
ARD-SUMP	12/16/14	656	<2.5	1.03	1.2	<0.16	10400	21.7	1.3	<0.1	81
ARD-SUMP	12/22/14	733	<2.5	0.95	1.3	<0.16	13600	24	1.2	<0.1	78.9
ARD-SUMP	3/31/15	654	<2.5	0.55	<1.0	<0.16	18800	24.1	2.2	<0.1	63.9
ARD-SUMP	4/7/15	705	<2.5	0.61	1.3	<0.16	20200	24.3	1.6	<0.1	53.2
ARD-SUMP	4/13/15	497	<2.5	0.82	1.2	<0.16	7130	14.9	1.2	<0.1	51
ARD-SUMP	4/20/15	578	<2.5	0.88	1.1	<0.2	8290	17.1	1.3	<0.1	57.3
ARD-SUMP	4/27/15	642	<2.5	0.64	1.3	<0.16	13200	19.8	1.3	<0.1	39.5
ARD-SUMP	5/4/15	784	<2.5	0.37	1.3	<0.16	19100	22.7	1.8	0.2	24
ARD-SUMP	5/11/15	648	<2.5	0.47	1.3	<0.16	14100	17.2	1.6	<0.1	25
ARD-SUMP	5/18/15	789	<2.5	0.29	1.3	<0.16	20300	18.9	2.3	<0.1	14.9
ARD-SUMP	5/26/15	840	<2.5	0.26	1.3	<0.16	23400	19.5	2.3	<0.1	14.2
ARD-SUMP	6/1/15	859	<2.5	0.13	1.3	<0.16	22900	16.6	1.8	<0.1	4.5
ARD-SUMP	6/8/15	695	2.5	0.54	2.5	<0.16	15400	17.1	1.7	<0.1	30.5
ARD-SUMP	6/15/15	788	<2.5	0.07	<1.0	<0.16	22900	15.6	1.5	<0.1	6.4
ARD-SUMP	6/22/15	727	<2.5	0.06	<1.0	<0.16	27800	16.1	1.4	<0.1	9.8
ARD-SUMP	6/29/15	811	<2.5	0.22	2	<0.16	7130	7.1	2.7	<0.1	6.4
ARD-SUMP	7/6/15	753	<2.5	0.05	<1.0	<0.2	25000	12.8	1.7	<0.1	3.6
ARD-SUMP	7/13/15	386	<2.5	0.23	1.2	<0.16	6600	7.1	1	<0.1	7.5
ARD-SUMP	7/20/15	540	<2.5	0.22	<1.0	<0.16	12600	11.8	1.1	<0.1	11
ARD-SUMP	7/27/15	363	<2.5	0.364	1.4	<0.16	4520	7.5	<1.0	<0.10	12.3
ARD-SUMP	8/3/15	884	<2.5	0.12	1.1	0.28	18400	18.5	1.2	<0.1	9.3
ARD-SUMP	8/10/15	818	<2.5	0.06	<1.0	<0.16	21400	16	1	<0.10	7.6
ARD-SUMP	8/17/15	523	<2.5	0.269	1.5	<0.16	6780	9.4	1.1	<0.10	10.9
ARD-SUMP	8/24/15	844	3	1.01	1.5	<0.16	11700	25.1	1.7	<0.10	57.9
ARD-SUMP	8/31/15	381	<2.5	0.57	1	<0.16	3840	11.9	1.2	<0.1	37.2
ARD-SUMP	9/8/15	799	<2.5	0.203	1.8	<0.16	15400	21.1	1.4	<0.1	16.5
ARD-SUMP	9/14/15	761	<2.5	0.33	2.1	<0.16	15100	18	1.2	<0.1	27.1
ARD-SUMP	9/21/15	242	<2.5	0.35	1.5	<0.16	2620	5.5	<1.0	<0.10	15
ARD-SUMP	9/28/15	312	<2.5	0.451	1.4	<0.16	4770	9.1	<1.0	<0.10	32.3
ARD-SUMP	10/5/15	723	<2.5	0.257	2.3	<0.16	17400	18.5	1.6	<0.10	23.9
ARD-SUMP	10/12/15	588	<2.5	0.866	1.9	<0.16	7150	18.6	2.3	<0.10	65.1
ARD-SUMP	10/19/15	622	<2.5	0.279	6.2	<0.16	7680	14.5	1.6	<0.10	21.9
ARD-SUMP	10/26/15	642	<2.5	0.11	2.3	<0.16	17900	14.8	2	<0.1	17.3
ARD-SUMP	11/2/15	559	<2.5	0.073	3.9	<0.16	15600	13.6	1.2	<0.10	15.5
ARD-SUMP	11/9/15	430	<2.5	0.087	4.2	<0.16	7220	9.9	1	<0.10	10.6
ARD-SUMP	11/16/15	603	<2.5	0.077	1.7	<0.16	12100	11.4	<1.0	<0.040	7
ARD-SUMP	11/30/15	435	<2.5	0.27	5.1	<0.16	4080	8.9	1.5	<0.1	17.9
ARD-SUMP	12/8/15	712	<2.5	0.155	2.1	<0.16	12100	16.2	1.4	<0.10	21.3
ARD-SUMP	1/19/16	692	2.7	0.146	1.1	<0.16	15300	16.5	1.2	<0.10	19.3
ARD-SUMP	1/25/16	374	<2.5	0.624	1.7	<0.16	4050	10.1	1.4	<0.10	46.8
ARD-SUMP	2/2/16	761	2.7	0.219	1.2	<0.16	14300	13.9	<1.0	<0.10	29.4
ARD-SUMP	2/8/16		<2.5	0.212	1.2	<0.16	13400	13.3	<1.0	<0.10	23.5
ARD-SUMP	2/15/16	487	<2.5	0.268	1.5	<0.16	9170	10.8	<1.0	<0.10	26.2
ARD-SUMP	2/22/16	570	<2.5	0.232	1.2	<0.16	14600	13	<1.0	<0.10	20.4
ARD-SUMP	2/29/16	576	<2.5	0.206	1.3	<0.16	7410	9.6	<1.0	<0.10	16.1
ARD-SUMP	3/7/16	612	<2.5	0.139	1.2	<0.16	12600	10.9	1.6	<0.10	11.7
ARD-SUMP	3/14/16	595	<2.5	0.164	1.7	<0.16	12800	11.1	1.2	<0.10	21.1
ARD-SUMP	3/21/16	623	<2.5	0.097	1.4	<0.16	17400	11.6	<1.0	<0.10	11.5
ARD-SUMP	3/28/16	545	<2.5	0.116	<1.0	<0.16	17000	11.9	<1.0	<0.10	12.7
ARD-SUMP	4/4/16	587	<2.5	0.084	<1.0	<0.16	21100	10.8	1.4	<0.10	10.7
ARD-SUMP	4/11/16	495	<2.5	0.129	1.6	<0.16	12500	8.5	1.2	<0.10	12.1
ARD-SUMP	4/18/16	580	3.5	0.141	1.3	<0.16	14900	11.7	1.3	<0.10	16
ARD-SUMP	4/25/16	575	<2.5	0.073	<1.0	<0.16	15800	9	1.1	<0.10	7
ARD-SUMP	5/2/16	486	<2.5	0.913	1.4	<0.16	3990	13	2.1	<0.10	59.6
ARD-SUMP	5/9/16	601	<2.5	0.088	<1.0	<0.16	12300	10.3	1.1	<0.10	9.7
ARD-SUMP	5/16/16	577	<2.5	0.045	2.8	<0.16	9290	10.5	2.4	<0.10	3
ARD-SUMP	5/23/16	638	<2.5	0.058	<1.0	<0.16	18600	9.5	1.4	<0.10	6.1
ARD-SUMP	5/31/16	636	<2.5	0.03	<1.0	<0.16	20400	7.5	1.8	<0.10	2.7
ARD-SUMP	6/6/16	517	<2.5	0.087	1.1	<0.16	10900	8.5	<1.0	<0.10	6.4
ARD-SUMP	6/13/16	584	<2.5	0.038	1.2	<0.16	13500	7	<1.0	<0.10	2.5
ARD-SUMP	6/20/16	568	<2.5	0.063	1	<0.16	22100	7.9	1.4	<0.10	4.7
ARD-SUMP	6/27/16	573	<2.5	0.027	1.3	<0.16	14300	5.8	2.1	<0.10	2.9

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ARD-SUMP	7/5/16	566	<2.5	0.021	1.2	<0.16	14100	5.9	2.1	<0.10	<2.5
ARD-SUMP	7/11/16	727	<2.5	0.036	1.4	<0.16	17100	6.4	2.5	<0.10	<2.5
ARD-SUMP	7/18/16	588	<2.5	<0.020	1.5	<0.16	14700	5	2.3	<0.10	2.6
ARD-SUMP	7/25/16	560	<2.5	0.034	1.4	<0.16	13100	5.9	2	<0.10	3.2
ARD-SUMP	8/1/16	678	<2.5	0.052	1.2	<0.16	16700	8.8	1.8	<0.10	6.8
ARD-SUMP	8/8/16	500	<2.5	0.037	1.3	<0.16	11100	6.1	1.8	<0.10	4
ARD-SUMP	8/15/16	668	<2.5	0.133	4.6	<0.16	5690	7.6	1.8	<0.10	9.4
ARD-SUMP	8/22/16	707	<2.5	0.063	1.6	<0.16	14800	7.8	1.8	<0.10	8.2
ARD-SUMP	8/29/16	692	<2.5	0.054	1.5	<0.16	15800	9.6	1.6	<0.10	7.7
ARD-SUMP	9/6/16	688	<2.5	0.035	2.1	<0.16	11300	6.6	2.4	<0.10	4
ARD-SUMP	9/12/16	646	<2.5	0.098	1.9	<0.16	11800	8.3	1.8	<0.10	8.5
ARD-SUMP	9/19/16	775	<2.5	0.118	1.2	<0.16	9610	10.1	1.5	<0.10	9.1
ARD-SUMP	9/26/16	614	3.1	0.092	1.1	<0.16	12200	10.3	1.7	<0.10	10.6
ARD-SUMP	10/3/16	671	3.2	0.069	1.1	<0.16	18000	8.5	2	<0.10	9.3
ARD-SUMP	10/10/16	659	<2.5	0.14	1.4	<0.16	18100	11.7	2.2	<0.10	22.6
ARD-SUMP	10/17/16	319	<2.5	0.085	2.1	<0.16	2230	2.7	1.3	<0.10	8.1
ARD-SUMP	10/24/16	575	<2.5	0.05	<1.0	<0.16	11900	7.5	1.5	<0.10	6.3
ARD-SUMP	10/31/16	653	3	0.065	1	<0.16	13300	8.3	1.8	<0.10	10.4
ARD-SUMP	11/7/16	347	<2.5	0.054	1.1	<0.16	5620	4.4	<1.0	<0.10	4.5
ARD-SUMP	11/14/16	490	<2.5	0.217	1.2	<0.16	6530	7.6	1.2	<0.10	18
ARD-SUMP	11/21/16	798	4	0.116	<1.0	<0.16	15200	9.5	1.6	<0.10	24.4
ARD-SUMP	11/28/16	609	<2.5	0.163	<1.0	<0.16	14200	9.9	1.6	<0.10	25.6
ARD-SUMP	1/30/17	518	4.3	0.315	2.4	<0.16	7360	8	1.3	<0.10	21.2
ARD-SUMP	4/17/17	184	<2.5	0.104	1.1	<0.16	1810	2.5	<1.0	<0.10	7.5
ARD-SUMP	4/24/17	470	<2.5	0.411	1	<0.16	13900	11.2	1.6	<0.10	24
ARD-SUMP	5/1/17	377	<2.5	0.242	1.6	<0.16	2530	4.6	<1.0	<0.10	10.1
ARD-SUMP	5/8/17	390	<2.5	0.077	1.3	<0.16	710	1.7	1.4	<0.10	6.3
ARD-SUMP	5/15/17	420	<2.5	0.146	1.2	<0.16	3230	3.6	<1.0	<0.10	5.2
ARD-SUMP	5/22/17	532	<2.5	0.507	1.3	<0.16	7890	9.8	2.2	<0.10	32.7
ARD-SUMP	5/30/17	501	<2.5	0.139	<1.0	<0.16	16700	9.4	1.9	<0.10	8.5
ARD-SUMP	6/5/17	472	<2.5	0.194	1.5	<0.16	12800	6.2	<1.0	<0.10	7.6
ARD-SUMP	6/15/17	438	<2.5	0.111	1.8	<0.16	13700	5.5	<1.0	<0.10	6.1
ARD-SUMP	6/20/17	309	<2.5	0.128	<1.0	<0.16	8470	4.4	<1.0	<0.10	7.4
ARD-SUMP	6/26/17	534	<2.5	0.282	3.3	<0.16	14000	8.9	<1.0	<0.10	16.5
ARD-SUMP	7/5/17	570	<2.5	0.13	<1.0	<0.16	11000	7.5	1.5	<0.10	10.7
ARD-SUMP	7/10/17	529	<2.5	0.118	<1.0	<0.16	11500	6.1	<1.0	<0.10	6.5
ARD-SUMP	7/17/17	571	<2.5	0.14	<1.0	<0.16	13100	9.7	<1.0	<0.10	10.3
ARD-SUMP	7/24/17	489	<2.5	0.07	<1.0	<0.16	12100	6	<1.0	<0.10	5.3
ARD-SUMP	7/31/17	667	<2.5	0.119	<1.0	<0.16	15700	7.8	1.5	<0.10	7.3
ARD-SUMP	8/7/17	693	<2.5	0.197	<1.0	<0.16	17900	8.3	1.2	<0.10	8.6
ARD-SUMP	8/14/17	401	<2.5	0.111	<1.0	<0.16	8260	3.9	1.3	<0.10	5.8
ARD-SUMP	8/21/17	609	3.9	0.456	<1.0	<0.16	8120	10.3	1.9	<0.10	37.9
ARD-SUMP	8/28/17	723	<2.5	0.195	<1.0	<0.16	9690	10.1	<1.0	<0.10	19.2
ARD-SUMP	9/5/17	709	3.4	0.268	<1.0	<0.16	6730	10.6	1.7	<0.10	28.8
ARD-SUMP	9/11/17	639	4.1	0.218	<1.0	<0.16	7580	12	1.1	<0.10	32.7
ARD-SUMP	9/18/17	519	<2.5	0.088	<1.0	<0.16	10700	6.5	1.5	<0.10	7.9
ARD-SUMP	9/25/17	638	4.5	0.181	<1.0	<0.16	8980	9.5	1.3	<0.10	22.9
ARD-SUMP	10/2/17	423	<2.5	0.417	<1.0	<0.16	5400	6.1	1.5	<0.10	20.5
ARD-SUMP	10/9/17	407	<2.5	0.398	<1.0	<0.16	2450	5.2	1.1	<0.10	22.4
ARD-SUMP	10/16/17	313	<2.5	0.116	1	<0.16	490	1.8	<1.0	<0.10	7.1
ARD-SUMP	10/23/17	420	<2.5	0.66	<1.0	<0.16	5430	7.5	1.1	<0.10	33.8
ARD-SUMP	10/31/17	498	13.6	0.926	2.6	<0.16	2510	8.7	2.1	<0.10	41.2
ARD-SUMP	11/6/17	626	14.3	0.499	6.5	<0.16	3060	8.8	2.1	<0.10	18.9
ARD-SUMP	12/14/17	163	3.5	0.453	1.1	<0.16	326	3.1	1.2	<0.10	25.4
ARD-SUMP	12/18/17	199	4	0.426	1	<0.16	388	3.1	1.3	<0.10	17
ARD-SUMP	1/8/18	23.8	<2.5	0.107	2.1	<0.16	51.7	<1.0	<1.0	<0.10	7.8
ARD-SUMP	1/16/18	42	<2.5	0.186	4	0.24	67.2	1	<1.0	<0.10	10.4
ARD-SUMP	4/19/18	38.6	<2.5	0.09	<1.0	<0.16	110	<1.0	<1.0	<0.10	3.2
ARD-SUMP	4/23/18	61.5	2.8	0.138	<1.0	<0.16	253	<1.0	<1.0	<0.10	6.1
ARD-SUMP	4/30/18	103	3.8	0.286	9.2	0.52	704	2.5	<1.0	<0.10	15.1
ARD-SUMP	5/7/18	189	4.5	0.521	1.8	<0.16	1790	5.3	<1.0	<0.10	17.8
ARD-SUMP	5/14/18	313	4.5	1.15	2.8	<0.16	5000	15.2	<1.0	<0.10	39
ARD-SUMP	5/21/18	343	5.2	1.11	3.1	<0.16	6170	17.2	<1.0	<0.10	32.6
ARD-SUMP	5/29/18	401	<2.5	0.913	1.8	<0.16	3360	10.5	<1.0	<0.10	31.9
ARD-SUMP	6/7/18	428	<2.5	0.826	1.8	<0.16	3150	9.1	<1.0	<0.10	21.1
ARD-SUMP	6/11/18	437	2.5	0.981	2.3	<0.16	3500	10.9	<1.0	<0.10	24.5
ARD-SUMP	6/18/18	398	2.9	0.782	2.2	<0.16	2860	9.2	<1.0	<0.10	16.8
ARD-SUMP	6/25/18	448	4.4	1.1	3.1	<0.16	4330	12.3	<1.0	<0.10	23.2
ARD-SUMP	7/2/18	449	5.4	0.831	3.6	<0.16	4180	11.9	<1.0	<0.10	16.9
ARD-SUMP	7/9/18	495	5	0.699	3.4	<0.16	3970	10.4	<1.0	<0.10	11.8
ARD-SUMP	7/16/18	472	5.7	0.568	3.7	<0.16	4130	9.5	<1.0	<0.10	11.1
ARD-SUMP	7/23/18	425	6.3	0.514	4.3	<0.16	3670	9	<1.0	<0.10	8.8
ARD-SUMP	7/30/18	437	5.7	0.643	4.3	<0.16	4240	10.1	<1.0	<0.10	11.7
ARD-SUMP	8/6/18	470	6.3	0.579	4.4	<0.16	4320	10.2	<1.0	<0.10	9.4
ARD-SUMP	8/13/18	448	2.7	0.468	3	<0.16	3270	6.5	<1.0	<0.10	8.1
ARD-SUMP	9/4/18	9.3	<2.5	<0.020	<1.0	<0.16	52.3	<1.0	<1.0	<0.10	196
ARD-SUMP	9/10/18	13.2	<2.5	<0.020	<1.0	<0.16	82.1	<1.0	<1.0	<0.10	271
ARD-SUMP	9/17/18	20.9	<2.5	0.031	<1.0	<0.16	123	<1.0	<1.0	<0.10	392

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
ARD-SUMP	9/24/18	34	0.11	<2.0	10.4	9.5	7.53	27.2	<0.10	<0.10	3.5	2.2	<2.5	62	0.101	<0.20
ARD-SUMP	10/1/18	20	<0.10	<2.0	8.2	10.8	8.06	17.8	<0.10	<0.10	2	1.12	<2.5	28	0.055	<0.20
ARD-SUMP	10/8/18	<10	<0.10	<2.0	12.9	10.03	7.41	12	<0.10	<0.10	1.16	1.13	<2.5	31	<0.05	<0.20
ARD-SUMP	10/15/18	<10	<0.10	<2.0	9.5	10	7.02	61	<0.10	<0.10	0.23	6.45	<2.5	428	0.66	<0.20
ARD-SUMP	10/22/18	<10	<0.10	<2.0	6.7	11.19	6.5	10.6	<0.10	<0.10	0.78	1.15	<2.5	32	<0.05	<0.20
ARD-SUMP	10/29/18	20	<0.10	<2.0	5.7	4.79	8.58	7.6	<0.10	<0.10	0.48	0.69	<2.5	19	<0.05	<0.20
ARD-SUMP	11/12/18	<10	<0.10	<2.0	3.6	12.59	7.87	6.8	<0.10	<0.10	0.29	1	<2.5	30	<0.05	<0.20
ARD-SUMP	11/19/18	<10	<0.10	<2.0	4.3	7.68	8.17	5.3	<0.10	<0.10	0.29	0.85	<2.5	14	<0.05	<0.20
ARD-SUMP	11/26/18	214	<0.10	<2.0	2.4	8.62	7.95	17.7	<0.10	<0.10	0.23	2.67	<2.5	13	<0.05	<0.20

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ARD-SUMP	9/24/18	14.6	<2.5	<0.020	<1.0	<0.16	82.6	<1.0	<1.0	<0.10	388
ARD-SUMP	10/1/18	9.7	<2.5	<0.020	<1.0	<0.16	54.3	<1.0	<1.0	<0.10	237
ARD-SUMP	10/8/18	5.6	<2.5	<0.020	<1.0	<0.16	29.5	<1.0	<1.0	<0.10	131
ARD-SUMP	10/15/18	5.6	<2.5	<0.020	<1.0	<0.16	14.9	<1.0	<1.0	<0.10	22.3
ARD-SUMP	10/22/18	3.3	<2.5	<0.020	<1.0	<0.16	15.2	<1.0	<1.0	<0.10	24.8
ARD-SUMP	10/29/18	3.2	<2.5	<0.020	<1.0	<0.16	19.5	<1.0	<1.0	<0.10	29.1
ARD-SUMP	11/12/18	1.7	<2.5	<0.020	<1.0	<0.16	9.3	<1.0	<1.0	<0.10	16.6
ARD-SUMP	11/19/18	2	<2.5	<0.020	<1.0	<0.16	11.2	<1.0	<1.0	<0.10	15.2
ARD-SUMP	11/26/18	4.2	<2.5	<0.020	<1.0	<0.16	11.4	<1.0	<1.0	<0.10	12.3

**Table 2 - Quarterly Mine Sump Sediments
Waste Management Permit - Section 1.7.3**

	Station Name	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments
	Collect Date/Time	1/19/2017	4/18/2017	7/26/2017	10/17/2017	1/16/2018
Total Dissolved Solids	mg/L	43	62.1	41.2	90	56.7
Ammonia as N	mg/L	0.211	<0.050	0.07	0.05	0.164
Nitrate as N	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
pH lab	pH	8.61	6.59	9.39	8.86	9.27
Sulfate	mg/L	5.6	12.2	8.97	6.04	8.01
Hardness, Total	mg/L	24.5	12.5	24.5	36.2	27.1
Total Recoverable Aluminum	mg/L	0.432	<0.20	0.463	0.203	0.166
Total Recoverable Arsenic	mg/L	<0.0050	<0.010	<0.020	<0.010	<0.0050
Total Recoverable Cadmium	mg/L	<0.00020	0.00055	<0.00040	<0.00040	<0.00020
Total Chromium	mg/L	<0.0020	<0.0040	<0.0040	<0.0040	<0.0020
Total Recoverable Copper	mg/L	0.0016	0.0029	<0.010	<0.0020	<0.0010
Total Recoverable Iron	mg/L	0.336	0.031	<0.020	0.043	0.038
Total Recoverable Lead	mg/L	0.00028	0.00042	<0.00040	<0.00040	<0.00020
Total Recoverable Manganese	mg/L	<0.010	5.86	<0.010	<0.010	<0.010
Mercury Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Recoverable Nickel	mg/L	<0.0020	0.005	<0.0040	<0.0040	<0.0020
Total Recoverable Selenium	mg/L	<0.010	<0.020	<0.020	<0.020	<0.010
Total Recoverable Silver	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020
Total Recoverable Zinc	mg/L	<0.0050	0.022	<0.050	<0.020	<0.0050

Table 3

2013/2014/2015/2016/2017/2018 Development Rock MWMP Results	TDS (mg/L)	pH	NH ₃ (mg/L)	Al (ug/L)	As (ug/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Pb (ug/L)	Hg (ug/L)	Ni (ug/L)	Se (ug/L)	Ag (ug/L)	Zn (ug/L)	Nitrate as N (mg/L)	Sulfate as SO ₄ (mg/L)
2013 Development Rock 1st Quarter	91	7.98	0.71	96	ND	ND	ND	1.02	ND	ND	ND	ND	ND	ND	ND	3.76	25.2
2013 Development Rock 2nd Quarter	174	8.42	1.15	314	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	ND	13.1	38.8
2013 Development Rock 3rd Quarter	221	7.58	1.00	114	ND	ND	ND	1.36	ND	ND	ND	ND	ND	ND	ND	5.27	97.6
2013 Development Rock 4th Quarter	97	7.45	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.28	37.2
2014 Development Rock 1st Quarter	73	7.58	0.9	81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.37	17.0
2014 Development Rock 2nd Quarter	164	7.65	2.95	ND	ND	ND	ND	1.23	ND	ND	ND	1.00	ND	ND	ND	7.27	64.8
2014 Development Rock 3rd Quarter	ND	7.30	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	1.7
2014 Development Rock 4th Quarter	80	7.52	1.87	ND	ND	ND	ND	ND	ND	ND	ND	1.71	ND	ND	ND	6.77	7.81
2015 Development Rock 1st Quarter	134	7.58	1.09	ND	ND	ND	ND	2.31	ND	ND	ND	1.00	ND	ND	ND	7.76	43.9
2015 Development Rock 2nd Quarter	71	7.88	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.22	4.19
2015 Development Rock 3rd Quarter	48	7.66	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.28	ND
2015 Development Rock 4th Quarter	48	7.48	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2016 Development Rock 1st Quarter	82	7.78	0.81	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.04	23.0
2016 Development Rock 2nd Quarter	159	8.11	1.96	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.26	44.4
2016 Development Rock 3rd Quarter	85	7.47	0.593	ND	ND	ND	ND	1.04	ND	3.89	ND	ND	ND	ND	ND	2.90	25.3
2016 Development Rock 4th Quarter	52	7.39	3.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.03	9.0
2017 Development Rock 1st Quarter	112	7.7	1.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.96	45.2
2017 Development Rock 2nd Quarter	212	7.84	0.824	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.71	89.7
2017 Development Rock 3rd Quarter	140	7.4	0.39	ND	ND	ND	ND	ND	ND	ND	ND	1.90	ND	ND	ND	4.34	65.1
2017 Development Rock 4th Quarter	258	8	1.66	310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.72	133.0
2018 Development Rock 1st Quarter	224	7.8	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.90	45.0
2018 Development Rock 2nd Quarter	214	8.2	0.648	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.45	121.0
2018 Development Rock 3rd Quarter	106	7.4	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	40.3
2018 Development Rock 4th Quarter	119	7.8	0.225	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.2

2013/2014/2015/2016/2017/2018 Development Rock ABA Results	Sulfur,		Sulfur Forms (Acid Extractable and Non-extractable Sulfur) 3.2.6		Acid	Neutralization	Acid - Base
	Total				Potential	Potential	Accounting
	3.2.4	Sulfate	Pyritic	Non-extractable	1.3.1	3.2.3	1.3.1
	wt%	wt%	wt%	wt%	† CaCO ₃ /1000t	† CaCO ₃ /1000t	† CaCO ₃ /1000t
2013 Development Rock 1st Quarter	0.15	ND	0.16	0.16	4.9	39.2	34.3
2013 Development Rock 2nd Quarter	0.03	0.03	ND	ND	ND	85.9	85.9
2013 Development Rock 3rd Quarter	0.04	0.02	0.02	ND	0.5	9.3	8.8
2013 Development Rock 4th Quarter	0.15	0.07	0.09	ND	2.7	91.2	88.5
2014 Development Rock 1st Quarter	0.03	0.03	ND	ND	ND	78.4	78.4
2014 Development Rock 2nd Quarter	0.17	0.03	0.14	ND	4.4	71.1	66.7
2014 Development Rock 3rd Quarter	0.02	0.02	ND	ND	ND	65.3	65.3
2014 Development Rock 4th Quarter	0.07	0.04	0.03	ND	0.8	65	64.2
2015 Development Rock 1st Quarter	0.115	0.07	0.05	ND	1.4	115	113.6
2015 Development Rock 2nd Quarter	0.15	0.06	0.09	ND	2.9	96.1	93.2
2015 Development Rock 3rd Quarter	0.09	0.07	0.02	ND	0.6	71.9	71.3
2015 Development Rock 4th Quarter	0.08	0.04	0.03	ND	1.1	111	109.9
2016 Development Rock 1st Quarter	0.08	0.02	0.06	ND	2.0	78.7	76.7
2016 Development Rock 2nd Quarter	0.03	0.03	ND	ND	ND	89.8	89.8
2016 Development Rock 3rd Quarter	0.04	0.01	0.03	ND	1.0	90.6	89.6
2016 Development Rock 4th Quarter	0.08	0.03	0.04	ND	1.3	70.4	69.1
2017 Development Rock 1st Quarter	0.09	ND	0.01	ND	3.2	77.5	74.3
2017 Development Rock 2nd Quarter	0.09	0.04	0.04	ND	1.3	94.9	93.6
2017 Development Rock 3rd Quarter	0.33	0.17	0.16	ND	4.9	70	65.1
2017 Development Rock 4th Quarter	0.09	0.02	0.07	0.07	2.1	101	98.9
2018 Development Rock 1st Quarter	0.07	0.07	ND	ND	ND	94.9	94.9
2018 Development Rock 2nd Quarter	0.13	0.11	0.01	ND	0.4	97.9	97.5
2018 Development Rock 3rd Quarter	0.16	0.09	0.07	ND	2.2	106	103.8
2018 Development Rock 4th Quarter	0.05	ND	0.04	ND	1.4	47.1	45.7

Table 4
Dam Seepage Sump
Monthly Mean Flow

Waste Management Permit - Section 1.7.3

Month	Mean Flow (gpm)	
9/20/13 thru 9/30/13	70	
10/1/13 thru 10/31/13	62	
11/1/13 thru 11/30/13	34	
12/1/13 thru 12/31/13	13	
1/1/14 thru 1/31/14	124	
2/1/14 thru 2/28/14	60	
3/1/14 thru 3/31/14	47	
4/1/14 thru 4/30/14	89	
5/1/14 thru 5/31/14	65	
6/1/14 thru 6/30/14	54	
7/1/14 thru 7/31/14	65	
8/1/14 thru 8/30/14	60	
9/1/14 thru 9/30/14	66	
10/1/14 thru 10/31/14	70	
11/1/14 thru 11/30/14	43	
12/1/14 thru 12/31/14	43	
1/1/15 thru 1/31/15	86	
2/1/15 thru 2/28/15	45	
3/1/15 thru 3/31/15	37	
4/1/15 thru 4/30/15	44	
5/1/15 thru 5/31/15	24	
6/1/15 thru 6/30/15	26	
7/1/15 thru 7/31/15	27	
8/1/15 thru 8/31/15	14	
9/1/15 thru 9/30/15	66	
10/1/15 thru 10/31/15	60	
11/1/15 thru 11/30/15	64	
12/1/15 thru 12/31/15	43	
1/1/16 thru 1/31/16	75	
2/1/16 thru 2/29/16	53	
3/1/16 thru 3/31/16	28	
4/1/16 thru 4/30/16	25	
5/1/16 thru 5/31/16	19	
6/1/16 thru 6/30/16	18	
7/1/16 thru 7/31/16	21	
8/1/16 thru 8/31/16	28	
9/1/16 thru 9/30/16	77	Power out from 9/24/16 thru 10/4/16
10/1/16 thru 10/31/16	30	
11/1/16 thru 11/30/16	31	Power out from 11/6/16 thru 11/20/16
12/1/16 thru 12/31/16	21	
1/1/17 thru 1/31/17	62	
2/1/17 thru 2/28/17	46	
3/1/17 thru 3/31/17	24	
4/1/17 thru 4/30/17	60	
5/1/17 thru 5/31/17	29	
6/1/17 thru 6/30/17	20	

7/1/17 thru 7/31/17	23	
8/1/17 thru 8/31/17	36	
9/1/17 thru 9/30/17	95	Power out on 9/29/17
10/1/17 thru 10/31/17	58	
11/1/17 thru 11/30/17	21	
12/1/17 thru 12/31/17	93	
1/1/18 thru 1/31/18	55	
2/1/18 thru 2/28/18	16	
3/1/18 thru 3/31/18	34	
4/1/18 thru 4/30/18	46	Power out from 4/16/18 thru 4/18/18
5/1/18 thru 5/31/18	51	
6/1/18 thru 6/30/18	52	
7/1/18 thru 7/31/18	20	
8/1/18 thru 8/31/18	38	Power out: 8/8; 8/17; 8/31
9/1/18 thru 9/30/18	21	Power Out: 9/1 thru 9/4
10/1/18 thru 10/31/18	78	
11/1/18 thru 11/30/18	42	Power out: 11/4 thru 11/7; 11/9 thru 11-14; 11/16 thru 11/19
12/1/18 thru 12/31/18	46	Power out: 12/1 thru 12/5

Table 5
Upper Slate Lake (USL/TTF bypass pipe)
Weekly Mean Flow
Waste Management Permit - Section 1.7.3

Month	Mean Flow (gpm)
9/20/13 thru 9/21/13	8013
9/22/13 thru 9/29/13	2392
9/30/2013	1349
10/1/13 thru 10/6/13	2561
10/7/13 thru 10/13/13	2256
10/14/13 thru 10/20/13	2940
10/21/13 thru 10/27/13	4259
10/28/13 thru 11/3/13	2036
11/4/13 thru 11/10/13	1461
11/11/13 thru 11/17/13	818
11/18/13 thru 11/24/13	970
11/25/13 thru 12/1/13	1840
12/2/13 thru 12/8/13	465
12/9/13 thru 12/15/13	408
12/16/13 thru 12/22/13	1889
12/23/13 thru 12/29/13	1166
12/30/13 thru 1/5/14	1710
1/6/14 thru 1/12/14	1215
1/13/14 thru 1/19/14	4002
1/20/14 thru 1/26/14	4390
1/27/14 thru 2/02/14	2442
2/3/14 thru 2/9/14	921
2/10/14 thru 2/16/14	488
2/17/14 thru 2/23/14	311
2/24/14 thru 3/2/14	128
3/3/14 thru 3/9/14	964
3/10/14 thru 3/16/14	1004
3/17/14 thru 3/23/14	206

3/24/14 thru 3/30/14	29
3/31/14 thru 4/6/14	56
4/7/14 thru 4/13/14	1410
4/14/14 thru 4/20/14	1817
4/21/14 thru 4/27/14	3357
4/28/14 thru 5/4/14	4290
5/5/14 thru 5/11/14	617
5/12/14 thru 5/18/14	2515
5/19/14 thru 5/25/14	2469
5/26/14 thru 6/1/14	868
6/2/14 thru 6/8/14	1035
6/9/14 thru 6/15/14	1843
6/16/14 thru 6/22/14	1526
6/23/14 thru 6/29/14	2221
6/30/14 thru 7/6/14	1417
7/7/14 thru 7/13/14	2965
7/14/14 thru 7/20/14	3176
7/21/14 thru 7/27/14	1099
7/28/14 thru 8/3/14	1568
8/4/14 thru 8/10/14	779
8/11/14 thru 8/17/14	5382
8/18/14 thru 8/24/14	2665
8/25/14 thru 8/31/14	962
9/1/14 thru 9/7/14	2437
9/8/14 thru 9/14/14	2295
9/15/14 thru 9/21/14	2115
9/22/14 thru 9/28/14	3040
9/29/14 thru 10/5/14	4672
10/6/14 thru 10/12/14	5183
10/13/14 thru 10/19/14	2459
10/20/14 thru 10/26/14	2070
10/27/14 thru 11/2/14	1260
11/3/14 thru 11/9/14	1871
11/10/14 thru 11/16/14	947
11/17/14 thru 11/23/14	1068
11/24/14 thru 11/30/14	868
12/1/14 thru 12/7/14	413
12/8/14 thru 12/14/14	2234
12/15/14 thru 12/21/14	1699
12/22/14 thru 12/28/14	672
12/29/14 thru 1/4/15	590
1/5/15 thru 1/11/15	326
1/12/15 thru 1/18/15	4651
1/19/15 thru 1/25/15	6295
1/26/15 thru 2/1/15	3062
2/2/15 thru 2/8/15	921
2/9/15 thru 2/15/15	1123
2/16/15 thru 2/22/15	1579
2/23/15 thru 3/1/15	2333
3/2/15 thru 3/8/15	986
3/9/15 thru 3/15/15	1324
3/16/15 thru 3/22/15	867

3/23/15 thru 3/29/15	947
3/30/15 thru 4/5/15	1419
4/6/15 thru 4/12/15	1667
4/13/15 thru 4/19/15	2010
4/20/15 thru 4/26/15	2076
4/27/15 thru 5/3/15	1299
5/4/15 thru 5/10/15	608
5/11/15 thru 5/17/15	592
5/18/15 thru 5/24/15	455
5/25/15 thru 5/31/15	325
6/1/15 thru 6/7/15	1224
6/8/15 thru 6/14/15	1146
6/15/15 thru 6/21/15	239
6/22/15 thru 6/28/15	145
6/29/15 thru 7/5/15	493
7/6/15 thru 7/12/15	181
7/13/15 thru 7/19/15	937
7/20/15 thru 7/26/15	633
7/27/15 thru 8/2/15	2149
8/3/15 thru 8/9/15	495
8/10/15 thru 8/16/15	1184
8/17/15 thru 8/23/15	1079
8/24/15 thru 8/30/15	2900
8/31/15 thru 9/6/15	1440
9/7/15 thru 9/13/15	3115
9/14/15 thru 9/20/15	2700
9/21/15 thru 9/27/15	1363
9/28/15 thru 10/4/15	3318
10/5/15 thru 10/11/15	2419
10/12/15 thru 10/18/15	3226
10/19/15 thru 10/25/15	3482
10/26/15 thru 11/1/15	1205
11/2/15 thru 11/8/15	2190
11/9/15 thru 11/15/15	2324
11/16/15 thru 11/22/15	1444
11/23/15 thru 11/29/15	1737
11/30/15 thru 12/6/15	2831
12/7/15 thru 12/13/15	758
12/14/15 thru 12/20/15	464
12/21/15 thru 12/27/15	241
12/28/15 thru 1/3/16	698
1/4/16 thru 1/10/16	404
1/11/16 thru 1/17/16	2684
1/18/16 thru 1/24/16	1048
1/25/16 thru 1/31/16	6135
2/1/16 thru 2/7/16	1206
2/8/16 thru 2/14/16	2371
2/15/16 thru 2/21/16	888
2/22/16 thru 2/28/16	2641
2/29/16 thru 3/6/16	1109
3/7/16 thru 3/13/16	769
3/14/16 thru 3/20/16	493

3/21/16 thru 3/27/16	777
3/28/16 thru 4/3/16	2031
4/4/16 thru 4/10/16	1930
4/11/16 thru 4/17/16	1267
4/18/16 thru 4/24/16	1117
4/25/16 thru 5/1/16	1826
5/2/16 thru 5/8/16	1953
5/9/16 thru 5/15/16	4020
5/16/16 thru 5/22/16	1135
5/23/16 thru 5/29/16	1306
5/30/16 thru 6/5/16	512
6/16/16 thru 6/12/16	666
6/13/16 thru 6/19/16	439
6/20/16 thru 6/26/16	75
6/27/16 thru 7/3/16	251
7/4/16 thru 7/10/16	261
7/11/16 thru 7/17/16	0
7/18/16 thru 7/24/16	308
7/25/16 thru 7/31/16	1947
8/1/16 thru 8/7/16	590
8/8/16 thru 8/14/16	1928
8/15/16 thru 8/21/16	1779
8/22/16 thru 8/28/16	1731
8/29/16 thru 9/4/16	621
9/5/16 thru 9/11/16	1011
9/12/16 thru 9/18/16	6171
9/19/16 thru 9/25/16	2640
9/26/16 thru 10/2/16	No Power
10/3/16 thru 10/9/16	413
10/10/16 thru 10/16/16	204
10/17/16 thru 10/23/16	2288
10/24/16 thru 10/30/16	546
10/31/16 thru 11/6/16	643
11/7/16 thru 11/13/16	2335
11/14/16 thru 11/20/16	2089
11/21/16 thru 11/27/16	286
11/28/16 thru 12/4/16	2583
12/5/16 thru 12/11/16	654
12/12/16 thru 12/18/16	223
12/19/16 thru 12/25/16	691
12/26/16 thru 1/01/17	265
1/2/17 thru 1/8/17	128
1/9/17 thru 1/15/17	782
1/16/17 thru 1/22/17	2407
1/23/17 thru 1/29/17	1360
1/30/17 thru 2/5/17	673
2/6/17 thru 2/12/17	126
2/13/17 thru 2/19/17	3263
2/20/17 thru 2/26/17	503
2/27/17 thru 3/5/17	191
3/6/17 thru 3/12/17	2062
3/13/17 thru 3/19/17	

No power on 10/3/16

No power 11/16-11/20

Frozen from 3-1 thru 3-5

Frozen on 3-14

3/20/17 thru 3/26/17	4385
3/27/17 thru 4/2/17	1225
4/3/17 thru 4/9/17	1575
4/10/17 thru 4/16/17	2906
4/17/17 thru 4/23/17	1780
4/24/17 thru 4/30/17	3021
5/1/17 thru 5/7/17	1705
5/8/17 thru 5/14/17	1287
5/15/17 thru 5/21/17	1099
5/22/17 thru 5/28/17	2997
5/29/17 thru 6/4/17	1023
6/5/17 thru 6/11/17	554
6/12/17 thru 6/18/17	410
6/19/17 thru 6/25/17	22
6/26/17 thru 7/2/17	64
7/3/17 thru 7/9/17	1249
7/10/17 thru 7/16/17	579
7/17/17 thru 7/23/17	394
7/24/17 thru 7/30/17	386
7/31/17 thru 8/6/17	379
8/7/17 thru 8/13/17	255
8/14/17 thru 8/20/17	289
8/21/17 thru 8/27/17	3462
8/28/17 thru 9/3/17	2853
9/4/17 thru 9/10/17	5851
9/11/17 thru 9/17/17	2049
9/18/17 thru 9/24/17	1128
9/25/17 thru 10/1/17	3214
10/2/17 thru 10/8/17	1964
10/9/17 thru 10/15/17	1775
10/16/17 thru 10/22/17	1762
10/23/17 thru 10/29/17	3210
10/30/17 thru 11/5/17	1242
11/6/17 thru 11/12/17	415
11/13/17 thru 11/19/17	303
11/20/17 thru 11/26/17	26
11/27/17 thru 12/3/17	0
12/4/17 thru 12/10/17	3739
12/11/17 thru 12/17/17	6591
12/18/17 thru 12/24/17	1235
12/25/17 thru 12/31/17	451
1/1/18 thru 1/7/18	4359
1/8/18 thru 1/14/18	924
1/15/18 thru 1/21/18	1678
1/22/18 thru 1/28/18	406
1/29/18 thru 2/4/18	1433
2/5/18 thru 2/11/18	4576
2/12/18 thru 2/18/18	0
2/19/18 thru 2/25/18	0
2/26/18 thru 3/4/18	0
3/5/18 thru 3/11/18	0
3/12/18 thru 3/18/18	2552

meter reset

Frozen

meter reset

Partially Frozen

Frozen

Frozen

Frozen

Frozen

3/19/18 thru 3/25/18	501
3/26/18 thru 4/1/18	58
4/2/18 thru 4/8/18	1967
4/9/18 thru 4/15/18	2781
4/16/18 thru 4/22/18	2055
4/23/18 thru 4/29/18	2835
4/30/18 thru 5/6/18	1894
5/7/18 thru 5/13/18	1283
5/14/18 thru 5/20/18	1042
5/21/18 thru 5/27/18	2693
5/28/18 thru 6/3/18	1466
6/4/18 thru 6/10/18	594
6/11/18 thru 6/17/18	402
6/18/18 thru 6/24/18	91
6/25/18 thru 7/01/18	0
7/2/18 thru 7/8/18	0
7/9/18 thru 7/15/18	0
7/16/18 thru 7/22/18	0
7/23/18 thru 7/29/18	0
7/30/18 thru 8/5/18	0
8/6/18 thru 8/12/18	430
8/13/18 thru 8/19/18	372
8/20/18 thru 8/26/18	33
8/27/18 thru 9/2/18	1180
9/3/18 thru 9/9/18	443
9/10/18 thru 9/16/18	13
9/17/18 thru 9/23/18	22
9/24/18 thru 9/30/18	35
10/1/18 thru 10/7/18	699
10/8/18 thru 10/14/18	1153
10/15/18 thru 10/21/18	7712
10/22/18 thru 10/28/18	4377
10/29/18 thru 11/4/18	735
11/5/18 thru 11/11/18	1370
11/12/18 thru 11/18/18	3705
11/19/18 thru 11/25/18	2572
11/26/18 thru 12/2/18	2105
12/3/18 thru 12/9/18	461
12/10/18 thru 12/16/18	2385
12/17/18 thru 12/23/18	1141
12/24/18 thru 12/30/18	1162
12/31/18 thru 1/06/18	3154

Table 6
Monthly Precipitation
Rainfall & Cumulative Snow
Waste Management Permit - Section 1.7.3

Month	Rainfall (Total Precipitation) (inches)	Snowfall (Cumulative) (inches)	Snowfall (monthly) (inches)
9/20/13 thru 9/30/13	4.46	0	0
10/1/13 thru 10/31/13	14.31	0	0
11/1/13 thru 11/30/13	7.31	8.8	8.80

Table 6
Monthly Precipitation
Rainfall & Cumulative Snow
Waste Management Permit - Section 1.7.3

12/1/13 thru 12/31/13	11.59	85.4	76.60
1/1/14 thru 1/31/14	12.08	119.3	33.86
2/1/14 thru 2/28/14	1.65	142.9	23.62
3/1/14 thru 3/31/14	4.37	178.7	35.83
4/1/14 thru 4/30/14	4.54	181.9	3.15
5/1/14 thru 5/31/14	3.40	181.9	0.00
6/1/14 thru 6/30/14	9.60	181.9	0.00
7/1/14 thru 7/31/14	12.8	181.9	0.00
8/1/14 thru 8/30/14	11.02	0.0	0.00
9/1/14 thru 9/31/14	14.77	0.0	0.00
10/1/14 thru 10/31/14	12.39	0.0	0.00
11/1/14 thru 11/30/14	6.85	3.9	3.94
12/1/14 thru 12/31/14	6.70	8.7	4.72
1/1/15 thru 1/31/15	15.60	28.3	19.69
2/1/15 thru 2/28/15	5.16	40.55	12.20
3/1/15 thru 3/31/15	6.10	46.85	6.30
4/1/15 thru 4/30/15	10.47	46.85	0.00
5/1/15 thru 5/31/15	0.89	46.85	0.00
6/1/15 thru 6/30/15	6.36	46.85	0.00
7/1/15 thru 7/31/15	11.65	46.85	0.00
8/1/15 thru 8/31/15	11.78	46.85	0.00
9/1/15 thru 9/30/15	13.60	46.85	0.00
10/1/15 thru 10/31/15	12.74	0.00	0.00
11/1/15 thru 11/30/15	14.33	22.44	22.44
12/1/15 thru 12/31/15	5.10	64.17	41.73
1/1/16 thru 1/31/16	11.93	70.87	6.69
2/1/16 thru 2/29/16	7.01	81.50	10.63
3/1/16 thru 3/31/16	4.13	85.04	3.54
4/1/16 thru 4/30/16	7.47	85.04	0.00
5/1/16 thru 5/31/16	8.50	85.04	0.00
6/1/16 thru 6/30/16	5.22	85.04	0.00
7/1/16 thru 7/31/16	8.10	0.00	0.00
8/1/16 thru 8/31/16	10.24	0.00	0.00
9/1/16 thru 9/30/16	12.98	0.00	0.00
10/1/16 thru 10/31/16	5.03	15.75	15.75
11/1/16 thru 11/30/16	8.28	29.53	13.78
12/1/16 thru 12/31/16	12.05	132.09	102.56
1/1/17 thru 1/31/17	9.37	163.58	31.50
2/1/17 thru 2/28/17	9.00	210.43	46.85
3/1/17 thru 3/31/17	3.38	243.11	32.68
4/1/17 thru 4/30/17	4.42	243.11	0.00
5/1/17 thru 5/31/17	5.98	243.11	0.00
6/1/17 thru 6/30/17	4.12	243.11	0.00
7/1/17 thru 7/31/17	6.75	0.00	0.00
8/1/17 thru 8/31/17	9.91	0.00	0.00
9/1/17 thru 9/30/17	17.04	0.00	0.00
10/1/17 thru 10/31/17	10.45	0.00	0.00
11/1/17 thru 11/30/17	1.98	26.38	26.38

Table 6
Monthly Precipitation
Rainfall & Cumulative Snow
Waste Management Permit - Section 1.7.3

12/1/17 thru 12/31/17	13.26	44.49	18.11
1/1/18 thru 1/31/18	7.31	46.85	2.36
2/1/18 thru 2/28/18	1.30	54.72	7.87
3/1/18 thru 3/31/18	6.23	78.35	23.62
4/1/18 thru 4/30/18	5.24	78.35	0.00
5/1/18 thru 5/31/18	9.48	78.35	0.00
6/1/18 thru 6/30/18	3.71	78.35	0.00
7/1/18 thru 7/31/18	3.15	0	0.00
8/1/18 thru 8/31/18	10.24	0	0.00
9/1/18 thru 9/30/18	2.85	0	0.00
10/1/18 thru 10/31/18	13.93	0	0.00
11/1/18 thru 11/30/18	8.27	0	0.00
12/1/18 thru 12/31/18	6.80	21.65	21.65

Table 7
GPPTP Effluent
Monthly Mean Flow
Waste Management Permit - Section 1.7.3

Month	Mean Flow (gpm)
9/20/13 thru 9/30/13	12.74
10/1/13 thru 10/31/13	11.12
11/1/13 thru 11/30/13	3.36
12/1/13 thru 12/31/13	0
1/1/14 thru 1/31/14	0
2/1/14 thru 2/28/14	0
3/1/14 thru 3/31/14	0
4/1/14 thru 4/30/14	10.95
5/1/14 thru 5/31/14	5.89
6/1/14 thru 6/30/14	2.63
7/1/14 thru 7/30/14	3.05
8/1/14 thru 8/31/14	2.95
9/1/14 thru 9/30/14	4.39
10/1/14 thru 10/31/14	4.13
11/1/14 thru 11/30/14	1.43
12/1/14 thru 12/31/14	0.62
1/1/15 thru 1/31/15	2.39
2/1/15 thru 2/28/15	1.47
3/1/15 thru 3/31/15	5
4/1/15 thru 4/30/15	9.54
5/1/15 thru 5/31/15	1.85
6/1/15 thru 6/30/15	4.52
7/1/15 thru 7/31/15	4.91
8/1/15 thru 8/31/15	8.66
9/1/15 thru 9/30/15	11.54
10/1/15 thru 10/31/15	10.65
11/1/15 thru 11/30/15	5.68
12/1/15 thru 12/31/15	1.49
1/1/16 thru 1/31/16	0.03
2/1/16 thru 2/29/16	1.06
3/1/16 thru 3/31/16	1.25
4/1/16 thru 4/30/16	3.71
5/1/16 thru 5/31/16	4.15
6/1/16 thru 6/30/16	1.39
7/1/16 thru 7/31/16	4.08
8/1/16 thru 8/31/16	3.37
9/1/16 thru 9/30/16	5.03
10/1/16 thru 10/31/16	3.37
11/1/16 thru 11/30/16	5.09
12/1/16 thru 12/31/16	1.47
1/1/17 thru 1/31/17	0.1
2/1/17 thru 2/28/17	0
3/1/17 thru 3/31/17	0
4/1/17 thru 4/30/17	1.4
5/1/17 thru 5/31/17	2
6/1/17 thru 6/30/17	0.67
7/1/17 thru 7/31/17	2.17
8/1/17 thru 8/31/17	1.19
9/1/17 thru 9/30/17	7.05
10/1/17 thru 10/31/17	2.48
11/1/17 thru 11/30/17	0.1
12/1/17 thru 12/31/17	2.47
1/1/18 thru 1/31/18	0.01
2/1/18 thru 2/28/18	0
3/1/18 thru 3/31/18	0
4/1/18 thru 4/30/18	0.13
5/1/18 thru 5/31/18	0
6/1/18 thru 6/30/18	0.06
7/1/18 thru 7/31/18	0.03
8/1/18 thru 8/31/18	0.82
9/1/18 thru 9/30/18	1.04
10/1/18 thru 10/31/18	1.13
11/1/18 thru 11/30/18	2.11
12/1/18 thru 12/31/18	0.04

Table 8

**Mine Drainage to WTP
Monthly Mean Flow
Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
9/20/13 thru 9/30/13	1589
10/1/13 thru 10/31/13	1622
11/1/13 thru 11/30/13	1426
12/1/13 thru 12/31/13	991
1/1/14 thru 1/31/14	796
2/1/14 thru 2/28/14	857
3/1/14 thru 3/31/14	711
4/1/14 thru 4/30/14	597
5/1/14 thru 5/31/14	1294
6/1/14 thru 6/30/14	1443
7/1/14 thru 7/31/14	1521
8/1/14 thru 8/31/14	1281
9/1/14 thru 9/30/14	1330
10/1/14 thru 10/31/14	1401
11/1/14 thru 11/30/14	1138
12/1/14 thru 12/31/14	997
1/1/15 thru 1/31/15	999
2/1/15 thru 2/28/15	1113
3/1/15 thru 3/31/15	922
4/1/15 thru 4/30/15	908
5/1/15 thru 5/31/15	1194
6/1/15 thru 6/30/15	1094
7/1/15 thru 7/31/15	934
8/1/15 thru 8/31/15	1221
9/1/15 thru 9/30/15	1324
10/1/15 thru 10/31/15	1524
11/1/15 thru 11/30/15	1326
12/1/15 thru 12/31/15	1135
1/1/16 thru 1/31/16	890
2/1/16 thru 2/29/16	982
3/1/16 thru 3/31/16	867
4/1/16 thru 4/30/16	1520
5/1/16 thru 5/31/16	1445
6/1/16 thru 6/30/16	1303
7/1/16 thru 7/31/16	1315
8/1/16 thru 8/31/16	1109
9/1/16 thru 9/30/16	1404
10/1/16 thru 10/31/16	1311
11/1/16 thru 11/30/16	1303
12/1/16 thru 12/31/16	1173
1/1/17 thru 1/31/17	867
2/1/17 thru 2/28/17	846
3/1/17 thru 3/31/17	762
4/1/17 thru 4/30/17	922
5/1/17 thru 5/31/17	1642
6/1/17 thru 6/30/17	1771
7/1/17 thru 7/31/17	1559
8/1/17 thru 8/31/17	1361
9/1/17 thru 9/30/17	1732
10/1/17 thru 10/31/17	1777
11/1/17 thru 11/30/17	1372
12/1/17 thru 12/31/17	1382
1/1/18 thru 1/31/18	1312
2/1/18 thru 2/28/18	1176
3/1/18 thru 3/31/18	1081
4/1/18 thru 4/30/18	1020
5/1/18 thru 5/31/18	1637
6/1/18 thru 6/30/18	1755
7/1/18 thru 7/31/18	1416
8/1/18 thru 8/31/18	1414
9/1/18 thru 9/30/18	1410
10/1/18 thru 10/31/18	1527
11/1/18 thru 11/30/18	1712
12/1/18 thru 12/31/18	1565