Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																			
Date	LS #1 Flow (gpm)	PC-116R (East Well) Flow (gpm)	PC-116R (East Well) Water Elevation (ft amsl)	PC-99R2/R3 (Center Well) Flow (gpm)	PC-99R2/R3 (Center Well) Water Elevation (ft amsl)	PC-115R (West Well) Flow (gpm)	PC-115R (West Well) Water Elevation (ft amsl)	PC-117 Flow (gpm)	PC-117 Water Elevation (ft amsl)	PC-118 Flow (gpm)	PC-118 Water Elevation (ft amsl)	PC-119 Flow (gpm)	PC-119 Water Elevation (ft amsl)	PC-120 Flow (gpm)	PC-120 Water Elevation (ft amsl)	PC-121 Flow (gpm)	PC-121 Water Elevation (ft amsl)	PC-133 Flow (gpm)	PC-133 Water Elevation (ft amsl)
10/01/19	633	167	1536.53	88	1540.99	130	1542.08	110	1537.80	72	1546.23	103	1547.74	50	1548.84	19	1549.92	9.7	1521.79
10/02/19	633	166	1536.55	88	1540.88	130	1542.04	110	1537.78	71	1546.20	102	1547.73	50	1548.83	19	1549.91	9.7	1521.77
10/03/19	634	167	1536.54	88	1540.94	131	1542.03	111	1537.76	72	1546.22	103	1547.72	51	1548.82	20	1549.90	10	1521.82
10/04/19	653	164	1536.60	86	1541.03	127	1542.03	107	1537.80	70	1546.19	100	1547.70	49	1548.80	19	1549.88	9.6	1521.94
10/05/19	634	169	1536.58	89	1541.49	132	1542.03	112	1537.79	73	1546.20	104	1547.69	51	1548.80	20	1549.87	9.9	1521.97
10/06/19	634	167	1536.56	88	1541.56	131	1542.01	111	1537.75	72	1546.00	103	1547.68	50	1548.78	19	1549.85	10	1521.94
10/07/19[2]	634	168	1536.54	89	1541.77	131	1542.00	111	1537.74	72	1546.18	104	1547.68	51	1548.78	20	1549.85	10	1521.98
10/08/19	655	165	1536.53	87	1541.57	129	1542.00	110	1537.72	71	1546.16	102	1547.67	50	1548.77	20	1549.85	9.7	1521.99
10/09/19	624	165	1536.57	87	1542.31	128	1541.97	109	1537.78	71	1546.14	101	1547.65	50	1548.75	19	1549.82	10	1522.31
10/10/19	656	167	1536.52	88	1541.08	130	1541.93	110	1537.72	72	1546.09	103	1547.62	50	1548.72	19	1549.79	9.7	1522.23
10/11/19	662	166	1536.52	87	1540.78	130	1541.95	110	1537.71	71	1546.09	102	1547.62	50	1548.73	20	1549.80	10	1522.23
10/12/19	658	167	1536.49	88	1541.16	130	1541.93	110	1537.69	72	1546.10	103	1547.61	51	1548.72	19	1549.79	9.7	1522.23
10/13/19	649	167	1536.48	88	1541.70	131	1541.92	110	1537.67	72	1546.06	102	1547.61	50	1548.71	20	1549.78	9.7	1522.23
10/14/19[2]	652	167	1536.47	88	1541.34	130	1541.91	110	1537.66	72	1546.09	102	1547.60	50	1548.70	20	1549.77	9.7	1522.22
10/15/19	650	167	1536.47	88	1541.75	130	1541.90	111	1537.65	72	1546.06	102	1547.59	50	1548.69	20	1549.76	9.8	1522.16
10/16/19	649	167	1536.45	88	1542.26	131	1541.89	110	1537.64	72	1546.07	103	1547.59	50	1548.69	19	1549.76	10	1522.16
10/17/19	658	166	1536.42	87	1542.61	130	1541.88	110	1537.61	71	1546.04	102	1547.58	51	1548.67	20	1549.75	9.7	1522.09
10/18/19	661	167	1536.39	88	1541.50	131	1541.85	110	1537.58	72	1546.03	103	1547.55	50	1548.66	19	1549.72	10	1522.02
10/19/19	647	167	1536.40	88	1541.61	130	1541.85	110	1537.58	72	1546.01	102	1547.55	50	1548.66	19	1549.72	9.7	1522.05
10/20/19	647	167	1536.38	89	1542.16	131	1541.84	111	1537.55	72	1545.99	103	1547.53	50	1548.63	20	1549.70	9.8	1521.99
10/21/19[2]	647	167	1536.37	88	1541.91	131	1541.82	111	1537.53	72	1545.99	103	1547.51	50	1548.61	20	1549.68	9.8	1522.10
10/22/19	663	167	1536.36	88	1542.18	131	1541.81	110	1537.53	72	1545.98	102	1547.51	50	1548.61	20	1549.68	9.7	1521.94
10/23/19	664	166	1536.33	87	1541.75	130	1541.79	110	1537.50	71	1545.95	103	1547.49	50	1548.60	19	1549.67	10	1521.94
10/24/19	678	165	1536.42	87	1541.93	129	1541.79	109	1537.57	70	1545.96	102	1547.48	50	1548.58	20	1549.65	9.7	1521.95
10/25/19	672	164	1536.40	87	1541.28	128	1541.79	108	1537.55	71	1545.96	100	1547.49	50	1548.59	19	1549.66	9.6	1522.03
10/26/19	673	168	1536.38	88	1541.43	131	1541.79	111	1537.53	72	1545.96	104	1547.49	50	1548.59	20	1549.66	11	1522.07
10/27/19	674	166	1536.34	88	1542.11	130	1541.76	110	1537.49	71	1545.91	102	1547.45	50	1548.55	20	1549.62	9.7	1521.82
10/28/19[2]	674	167	1536.33	88	1541.69	130	1541.75	111	1537.47	72	1545.89	103	1547.45	50	1548.55	20	1549.62	10	1521.79
10/29/19[3]	596	148	1545.96	78	1547.20	116	1547.72	98	1547.76	64	1550.19	91	1550.40	44	1551.08	17	1551.28	8.3	1549.57
10/30/19[3]	527	126	1536.89	68	1541.29	100	1542.03	84	1538.00	54	1546.12	78	1547.68	38	1548.77	15	1549.82	8.2	1522.77
10/31/19	670	168	1536.73	89	1541.96	130	1541.94	112	1537.86	72	1546.03	103	1547.60	51	1548.69	20	1549.75	9.8	1522.60
Monthly Average	647	165	1536.79	87	1541.78	129	1542.10	109	1537.99	71	1546.20	101	1547.69	50	1548.77	20	1549.82	10	1522.96
Analytical[1]		Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc[4] (mg/L)	Date
Perchlorate		18	10/2/2019	18	10/2/2019	7.1	10/2/2019	9.4	10/2/2019	2.7	10/2/2019	0.45	10/2/2019	0.0053	10/2/2019	0.0026	10/2/2019	2.4	10/2/2019
Hexavalent Chromium		0.0033	10/2/2019	ND	10/2/2019	ND	10/2/2019	0.0042	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019
Total Chromium		0.0041 J	10/2/2019	0.0035 J	10/2/2019	ND	10/2/2019	0.0055	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019	ND	10/2/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

ND = Not detected above laboratory method detection limit (Cr(TR)=2.5 ug/L, Cr(VI) =0.20 ug/L).

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

1: Analytical results are reported from TestAmerica.

2: On 10/07, 10/14, 10/21, and 10/28, the LS #1 and SWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

3: From 10/29-10/30, the LS#1 and SWF system was offline due to power loss.

4: Duplicates taken on 10/02 for well PC-133; average of both values is presented and used for calculations.

Table 2 - Athens Well Field (AWF) Operational Metrics

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																	
Date	LS #3 Flow (gpm)	ART-1/1A		ART-2/2A		ART-3/3A		ART-4/4A		ART-9		ART-7A/7B		ART-8/8A		PC-150	
		Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[4] (gpm)	Water Elevation (ft amsl)	Flow[5] (gpm)	Water Elevation (ft amsl)
10/01/19	404	38	1583.26	149	1582.85	20	1581.11	2.8	1578.82	58	1582.25	19	1584.76	174	1582.94	1.5	1578.67
10/02/19	404	39	1583.26	150	1582.84	20	1581.10	3.5	1578.82	57	1582.25	19	1584.76	175	1582.93	1.5	1578.72
10/03/19	404	39	1583.25	150	1582.84	20	1581.11	2.8	1578.82	57	1582.26	19	1584.79	175	1582.94	1.5	1578.76
10/04/19	403	38	1583.25	149	1582.83	21	1581.10	3.4	1578.82	57	1582.25	18	1584.80	175	1582.93	1.5	1578.62
10/05/19	403	39	1583.24	149	1582.82	20	1581.10	2.8	1578.82	57	1582.27	19	1584.79	175	1582.92	1.5	1578.70
10/06/19	403	39	1583.24	148	1582.82	20	1581.09	2.8	1578.82	57	1582.30	19	1584.79	176	1582.92	1.5	1578.84
10/07/19[2]	403	39	1583.23	148	1582.80	20	1581.09	2.8	1578.82	57	1582.30	19	1584.79	176	1582.91	1.5	1578.78
10/08/19	418	39	1583.23	149	1582.82	20	1581.09	3.5	1578.82	57	1582.30	19	1584.80	174	1582.91	1.5	1578.68
10/09/19	393	40	1583.23	144	1582.82	19	1581.08	2.8	1578.82	56	1582.30	18	1584.73	168	1582.90	1.5	1578.64
10/10/19	404	38	1583.20	150	1582.79	20	1581.05	3.5	1578.81	57	1582.29	19	1584.73	175	1582.87	1.5	1578.90
10/11/19	405	39	1583.20	149	1582.78	20	1581.05	2.8	1578.81	57	1582.32	19	1584.73	175	1582.86	1.5	1578.74
10/12/19	405	39	1583.19	149	1582.76	20	1581.04	3.5	1578.82	57	1582.29	19	1584.76	176	1582.84	1.5	1578.70
10/13/19	404	39	1583.18	148	1582.75	20	1581.03	2.8	1578.82	57	1582.30	19	1584.76	174	1582.83	1.5	1578.67
10/14/19[2]	405	39	1583.16	148	1582.74	20	1581.02	3.1	1578.82	57	1582.27	19	1584.79	175	1582.82	1.5	1578.65
10/15/19	404	39	1583.16	150	1582.73	20	1581.02	3.5	1578.82	57	1582.30	18	1584.76	171	1582.82	1.5	1578.80
10/16/19	404	39	1583.15	149	1582.70	20	1581.01	2.8	1578.82	58	1582.30	19	1584.77	172	1582.81	1.5	1578.66
10/17/19	403	39	1583.13	149	1582.71	19	1581.00	3.5	1578.82	57	1582.27	19	1584.76	171	1582.80	1.5	1578.64
10/18/19	404	38	1583.12	150	1582.70	20	1581.00	2.8	1578.82	57	1582.26	19	1584.76	170	1582.79	1.5	1578.74
10/19/19	403	39	1583.12	149	1582.70	19	1580.99	2.8	1578.82	57	1582.27	19	1584.76	170	1582.79	1.5	1578.64
10/20/19	403	38	1583.10	148	1582.68	20	1580.98	2.8	1578.81	57	1582.25	17	1584.73	171	1582.77	1.5	1578.74
10/21/19[2]	403	39	1583.09	148	1582.67	20	1580.98	2.8	1578.82	57	1582.25	18	1584.73	170	1582.77	1.5	1578.65
10/22/19	403	39	1583.10	149	1582.67	20	1580.97	3.5	1578.82	57	1582.27	19	1584.73	172	1582.76	1.5	1578.68
10/23/19	403	39	1583.09	149	1582.66	19	1580.97	2.8	1578.82	58	1582.25	18	1584.72	171	1582.76	1.5	1578.64
10/24/19	403	39	1583.07	149	1582.65	20	1580.96	2.8	1578.81	57	1582.25	19	1584.72	172	1582.75	1.5	1578.60
10/25/19	402	39	1583.08	148	1582.66	20	1580.96	3.4	1578.82	57	1582.26	18	1584.72	170	1582.75	1.5	1578.63
10/26/19	403	39	1583.07	148	1582.65	20	1580.96	2.8	1578.82	57	1582.22	19	1584.72	172	1582.74	1.5	1578.65
10/27/19	404	39	1583.05	148	1582.63	20	1580.94	2.8	1578.82	57	1582.14	19	1584.71	172	1582.72	1.5	1578.65
10/28/19[2]	404	39	1583.05	148	1582.63	20	1580.94	2.8	1578.81	57	1582.21	19	1584.71	172	1582.72	1.5	1578.69
10/29/19	403	39	1583.02	149	1582.60	19	1580.92	2.8	1578.81	57	1582.14	19	1584.68	172	1582.69	1.5	1578.67
10/30/19	383	39	1583.48	148	1583.47	20	1581.32	2.7	1578.81	57	1582.21	19	1584.68	150	1582.21	1.5	1578.71
10/31/19	344	39	1583.39	149	1583.01	22	1581.24	3.5	1578.81	57	1582.14	18	1584.68	102	1583.08	1.5	1578.66
Monthly Average	401	39	1583.17	149	1582.77	20	1581.04	3.0	1578.82	57	1582.26	19	1584.75	170	1582.81	1.5	1578.69
Analytical[1]		Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc[3] (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate		27	10/1/2019	14	10/1/2019	260	10/1/2019	130	10/1/2019	220	10/1/2019	120	10/1/2019	94	10/1/2019	62	10/1/2019
Hexavalent Chromium		ND	10/1/2019	0.0057	10/1/2019	0.33	10/1/2019	0.15	10/1/2019	0.61	10/1/2019	0.52	10/1/2019	0.083	10/1/2019	0.044	10/1/2019
Total Chromium		ND	10/1/2019	0.0058	10/1/2019	0.31	10/1/2019	0.14	10/1/2019	0.60	10/1/2019	0.53	10/1/2019	0.083	10/1/2019	0.047	10/1/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

ND = Not detected above laboratory method detection limit (ClO_4 = 0.5 ug/L; ClO_3 = 10 ug/L; NO_3-N= 0.055 mg/L, Cr(VI) = 0.25 ug/L).

ART-1, 2, 3, 4, 7B, and 8 have adjacent recovery wells, both of which can be used for extraction. The pumping well can be chosen manually or automatically, based on operational considerations. The wells with transducers are ART-1, -2, -3, -4, -7A, -8, -9, and PC-150.

1: Analytical results are reported from TestAmerica.

2: On 10/07, 10/14, 10/21, and 10/28, the LS #3 and AWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

3: Duplicates taken on 10/01 for well ART-7; average of both values is presented and used for calculations.

4: From 10/30-10/31, ART-8A offline intermittently due to instrument error and motor replacement.

5: Conducted periodic bucket tests to confirm flow rates for PC-150. Average flow of 1.5 gpm determined from flow tests is presented for 10/01-10/31 flows and used for calculation purposes. Flow was steady throughout the month but the totalizer showed zero flow because totalizer units are 1,000 gallons.

Table Updated: 11/18/2019

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																				
Date	I-AR		I-AA		I-AB		I-AC		I-AD		I-B		I-C		I-D		I-E		I-F	
	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[5] (gpm)	Water Elevation (ft amsl)	Flow[6 7] (gpm)	Water Elevation (ft amsl)	Flow[6 7] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
10/01/19	0.03	1726.29	0.91	1712.51	0.00	1720.65	0.00	1725.63	0.00	1738.45	0.57	1712.24	4.1	1707.36	0.99	1721.60	0.80	1719.55	4.5	1720.72
10/02/19	0.03	1726.30	0.91	1712.47	0.00	1720.64	0.00	1725.56	0.00	1738.44	0.57	1712.11	4.0	1707.70	0.96	1721.76	0.83	1719.45	4.5	1720.73
10/03/19	0.03	1726.31	0.91	1712.47	0.00	1720.64	0.00	1725.60	0.00	1738.41	0.46	1712.43	4.0	1707.42	0.94	1721.87	0.83	1720.07	4.5	1720.75
10/04/19	0.03	1726.24	0.91	1712.90	0.00	1720.63	0.00	1725.42	0.00	1738.47	0.32	1712.32	4.0	1708.17	0.94	1722.26	0.63	1720.40	4.5	1720.74
10/05/19	0.03	1726.24	0.92	1712.27	0.00	1720.65	0.00	1725.38	0.00	1738.40	0.39	1713.11	4.1	1707.78	0.92	1721.96	0.61	1720.49	4.5	1720.76
10/06/19	0.03	1726.17	0.93	1712.28	0.00	1720.68	0.00	1725.32	0.00	1738.42	0.38	1713.56	4.0	1707.78	0.89	1721.96	0.59	1720.54	4.8	1720.77
10/07/19[2]	0.03	1726.31	0.92	1712.36	0.00	1720.70	0.00	1725.33	0.00	1738.49	0.38	1714.48	4.0	1707.49	0.91	1722.11	0.60	1720.58	4.6	1720.80
10/08/19	0.03	1726.31	0.92	1712.24	0.01	1720.73	0.00	1725.36	0.00	1738.49	0.28	1715.46	4.0	1707.63	0.91	1722.27	0.57	1720.70	4.5	1720.84
10/09/19	0.03	1726.22	0.92	1712.24	0.00	1720.70	0.02	1725.59	0.02	1738.43	0.26	1715.01	4.0	1707.83	0.83	1721.83	0.56	1720.69	4.5	1720.80
10/10/19[3]	0.03	1726.16	0.90	1712.34	0.00	1720.73	0.00	1725.24	0.00	1738.49	0.26	1718.42	4.0	1707.77	0.74	1721.92	0.45	1721.77	4.3	1720.87
10/11/19	0.03	1726.18	0.91	1712.33	0.00	1720.74	0.00	1725.28	0.00	1738.48	0.34	1720.74	4.1	1707.74	0.62	1721.81	0.26	1721.84	4.5	1720.93
10/12/19	0.03	1726.21	0.92	1712.29	0.00	1720.73	0.00	1725.29	0.00	1738.54	0.42	1717.64	4.1	1707.66	0.61	1722.06	0.26	1721.88	4.5	1720.95
10/13/19	0.03	1726.29	0.92	1712.26	0.00	1720.72	0.00	1725.26	0.00	1738.52	0.41	1717.55	4.2	1707.72	0.61	1721.94	0.26	1721.92	4.5	1720.97
10/14/19[2]	0.03	1726.21	0.92	1712.38	0.00	1720.71	0.00	1725.19	0.00	1738.55	0.42	1717.32	4.2	1707.50	0.61	1722.31	0.26	1721.80	4.5	1720.95
10/15/19	0.03	1726.33	0.90	1714.99	0.00	1720.69	0.00	1725.17	0.00	1738.47	0.35	1717.15	4.1	1707.91	1.1	1722.08	0.80	1719.88	4.5	1720.93
10/16/19	0.03	1726.15	0.90	1712.48	0.00	1720.69	0.00	1725.19	0.00	1738.51	0.34	1717.08	4.1	1707.68	1.0	1722.27	0.77	1719.96	4.5	1720.95
10/17/19	0.03	1726.05	0.90	1712.40	0.00	1720.67	0.00	1725.12	0.00	1738.46	0.40	1716.95	4.1	1706.98	1.0	1721.03	0.75	1720.25	4.5	1720.92
10/18/19	0.03	1725.98	0.90	1712.48	0.00	1720.67	0.00	1725.00	0.00	1738.46	0.42	1717.02	4.1	1707.99	1.0	1720.76	0.68	1720.28	4.5	1720.91
10/19/19	0.03	1726.15	0.91	1712.43	0.00	1720.68	0.00	1725.04	0.00	1738.48	0.42	1717.28	3.0	1709.95	1.0	1718.74	0.67	1720.39	4.5	1720.96
10/20/19	0.03	1726.15	0.90	1712.42	0.00	1720.66	0.00	1724.91	0.00	1738.47	0.41	1717.23	3.7	1709.03	1.0	1719.90	0.66	1720.42	4.5	1720.97
10/21/19[2]	0.03	1726.19	0.91	1712.41	0.00	1720.66	0.00	1724.90	0.00	1738.43	0.42	1716.97	3.4	1708.82	1.0	1720.27	0.67	1720.47	4.5	1720.99
10/22/19[3]	0.03	1726.50	0.70	1712.41	0.00	1720.84	0.00	1724.90	0.00	1738.59	0.27	1719.95	2.6	1712.38	0.70	1722.67	0.39	1721.64	3.5	1721.17
10/23/19	0.03	1726.22	0.91	1712.34	0.00	1720.80	0.00	1724.88	0.00	1738.64	0.28	1719.44	3.0	1711.82	0.83	1722.51	0.37	1721.65	4.5	1721.16
10/24/19	0.03	1726.20	0.91	1712.62	0.00	1720.80	0.00	1724.78	0.00	1738.56	0.32	1719.30	2.9	1716.18	0.82	1722.26	0.37	1721.67	4.5	1721.18
10/25/19	0.03	1726.19	0.91	1712.40	0.00	1720.84	0.00	1724.83	0.00	1738.78	0.34	1719.80	3.0	1716.88	0.74	1721.49	0.37	1721.77	4.4	1721.25
10/26/19	0.03	1726.26	0.91	1712.51	0.00	1720.85	0.00	1724.91	0.00	1738.75	0.30	1719.65	2.9	1715.98	0.70	1720.93	0.36	1721.83	4.5	1721.29
10/27/19	0.03	1726.22	0.90	1712.50	0.00	1720.82	0.00	1724.69	0.00	1738.80	0.33	1719.56	2.9	1713.82	0.70	1721.17	0.36	1721.82	4.5	1721.26
10/28/19[2 4]	0.03	1726.49	0.91	1712.61	0.00	1720.88	0.00	1724.67	0.00	1738.74	0.32	1720.17	2.9	1714.18	0.70	1722.11	0.36	1721.98	4.5	1721.35
10/29/19	0.02	1726.43	0.89	1712.59	0.00	1720.79	0.00	1724.58	0.00	1738.84	0.23	1719.79	3.8	1713.88	1.0	1721.71	0.78	1719.66	4.5	1721.19
10/30/19	0.03	1726.62	0.90	1712.50	0.00	1720.76	0.00	1724.53	0.00	1738.80	0.28	1718.98	3.7	1713.93	1.1	1721.32	0.89	1719.78	4.5	1721.20
10/31/19	0.03	1726.58	0.90	1712.58	0.00	1720.75	0.00	1724.59	0.00	1738.66	0.32	1718.79	3.8	1713.81	1.1	1721.23	0.87	1719.83	4.5	1721.22
Monthly Average	0.03	1726.26	0.90	1712.52	0.00	1720.73	0.00	1725.10	0.00	1738.55	0.36	1717.02	3.7	1709.96	0.87	1721.62	0.57	1720.81	4.4	1720.98
Analytical[1]	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	560	10/9/2019	50	10/8/2019	160	10/8/2019	230	10/9/2019	130	10/9/2019	230	10/8/2019	470	10/8/2019	410	10/8/2019	360	10/8/2019	460	10/8/2019
Hexavalent Chromium	0.010	10/9/2019	0.055	10/8/2019	0.0087	10/8/2019	2.1	10/9/2019	1.3	10/9/2019	0.057	10/8/2019	2.3	10/8/2019	3.9	10/8/2019	5.2	10/8/2019	11	10/8/2019
Total Chromium	7.9	10/9/2019	0.057	10/8/2019	0.020	10/8/2019	2.1	10/9/2019	1.3	10/9/2019	0.057	10/8/2019	2.2	10/8/2019	3.9	10/8/2019	5.1	10/8/2019	12	10/8/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

1: Analytical results are reported from TestAmerica.

2: On 10/07, 10/14, 10/21, and 10/28, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

3: On 10/10 and 10/22, the IWF system offline briefly for maintenance.

4: On 10/28, the IWF system was reset due to an instrument error.

5: On 10/19, I-C offline briefly due to motor replacement.

6: On 10/14, I-D, I-E, I-L, I-M, I-N, I-O, I-P, and I-W adjusted to meet flow targets as directed by the Trust.

7: On 10/28, I-D, I-E, I-L, I-N, and I-Y adjusted to meet flow targets as directed by the Trust.

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																				
Date	I-G		I-H		I-I		I-J		I-K		I-L		I-M		I-N		I-O		I-P	
	Flow (gpm)	Water Elevation (ft amsl)	Flow[8] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[6 7 10] (gpm)	Water Elevation (ft amsl)	Flow[6] (gpm)	Water Elevation (ft amsl)	Flow[6 7] (gpm)	Water Elevation (ft amsl)	Flow[6 11] (gpm)	Water Elevation (ft amsl)	Flow[6] (gpm)	Water Elevation (ft amsl)
10/01/19	0.16	1716.26	1.2	1719.68	4.9	1721.90	6.3	1712.04	3.5	1709.24	0.84	1719.24	1.6	1721.98	3.2	1720.25	0.23	1721.43	2.2	1720.74
10/02/19	0.15	1717.28	1.1	1719.89	4.9	1721.90	6.3	1712.03	3.5	1709.26	0.88	1719.17	1.6	1721.99	3.1	1720.26	0.22	1721.44	2.2	1720.77
10/03/19	0.13	1718.44	1.0	1719.99	4.9	1721.92	6.3	1712.04	3.5	1709.84	0.85	1719.22	1.6	1722.00	3.1	1720.28	0.21	1721.47	2.2	1720.81
10/04/19	0.18	1714.64	0.94	1720.63	4.9	1721.92	6.3	1712.02	3.5	1710.01	0.84	1719.41	1.6	1722.00	3.1	1720.28	0.20	1721.48	2.2	1720.83
10/05/19	0.18	1714.90	0.88	1720.69	4.9	1721.93	6.3	1712.03	3.5	1710.21	0.79	1719.86	1.5	1722.03	3.1	1720.31	0.17	1721.50	2.1	1720.91
10/06/19	0.15	1717.42	0.93	1720.73	4.9	1721.95	6.4	1712.03	3.5	1709.24	0.74	1720.42	1.5	1722.05	3.1	1720.32	0.14	1721.52	2.1	1720.95
10/07/19[2]	0.16	1717.35	0.90	1720.78	4.9	1721.97	6.4	1712.04	3.5	1710.24	0.76	1720.54	1.5	1722.07	3.1	1720.35	0.16	1721.49	2.1	1720.98
10/08/19	0.15	1717.66	0.86	1720.79	4.9	1722.00	6.4	1712.06	3.6	1709.90	0.59	1720.84	1.5	1722.16	3.0	1720.43	0.37	1721.52	2.1	1721.03
10/09/19	0.15	1717.66	0.88	1719.06	4.9	1721.98	6.4	1711.97	3.6	1710.08	0.45	1721.18	1.4	1722.15	3.0	1720.41	0.37	1721.51	2.1	1721.04
10/10/19[3]	0.14	1718.51	1.0	1717.49	4.9	1721.96	6.3	1711.97	3.5	1709.33	0.58	1719.54	1.3	1722.38	2.7	1720.64	0.34	1721.53	2.0	1721.12
10/11/19	0.13	1718.53	1.5	1717.30	4.9	1721.99	6.3	1711.98	3.6	1710.05	0.84	1720.01	1.1	1722.45	2.5	1720.71	0.24	1721.54	1.8	1721.14
10/12/19	0.14	1718.27	1.5	1717.33	4.9	1722.00	6.4	1711.98	3.6	1709.70	0.76	1720.39	1.1	1722.49	2.7	1720.67	0.25	1721.57	1.8	1721.19
10/13/19	0.15	1718.17	1.5	1717.45	4.9	1722.02	6.4	1711.98	3.6	1709.14	0.68	1720.66	1.1	1722.48	2.6	1720.73	0.24	1721.58	1.8	1721.21
10/14/19[2]	0.14	1718.13	1.5	1717.00	4.9	1722.00	6.4	1711.98	3.6	1709.64	0.71	1718.43	1.1	1722.05	2.7	1720.49	0.25	1721.49	1.8	1720.91
10/15/19	0.15	1718.30	1.4	1715.84	4.9	1721.98	6.4	1711.98	3.6	1709.83	1.1	1718.36	1.8	1722.00	3.1	1720.45	0.45	1721.44	2.3	1720.84
10/16/19	0.15	1717.84	1.5	1715.27	4.9	1721.99	6.4	1711.98	3.6	1709.56	1.0	1718.45	1.8	1722.00	3.1	1720.46	0.44	1721.44	2.3	1720.83
10/17/19	0.16	1717.72	1.6	1715.62	4.9	1722.00	6.4	1711.98	3.6	1709.69	1.0	1718.62	1.7	1721.99	3.1	1720.45	0.47	1721.45	2.3	1720.88
10/18/19	0.16	1717.25	1.5	1715.10	4.9	1721.97	6.4	1711.98	3.6	1709.53	0.86	1719.83	1.7	1721.99	3.1	1720.45	0.48	1721.45	2.3	1720.87
10/19/19	0.16	1717.33	1.5	1715.40	4.9	1721.99	6.4	1711.99	3.6	1709.57	0.81	1720.09	1.7	1722.04	2.8	1720.70	0.45	1721.48	2.3	1720.90
10/20/19	0.17	1716.80	1.6	1714.92	4.9	1721.96	6.4	1711.98	3.6	1710.09	0.79	1720.22	1.7	1722.03	2.6	1720.71	0.44	1721.45	2.3	1720.88
10/21/19[2]	0.17	1716.77	1.6	1714.73	4.9	1721.95	6.4	1711.98	3.6	1710.15	0.80	1720.26	1.7	1722.03	2.7	1720.76	0.45	1721.45	2.3	1720.87
10/22/19[3]	0.12	1719.26	1.2	1717.98	3.8	1722.22	5.2	1711.99	2.9	1709.14	0.44	1721.63	1.3	1722.29	1.8	1721.07	0.28	1721.69	1.7	1721.26
10/23/19	0.14	1719.12	1.6	1717.87	4.9	1722.15	6.6	1712.00	3.7	1709.13	0.38	1721.59	1.5	1722.31	2.1	1721.08	0.28	1721.66	2.1	1721.23
10/24/19	0.14	1719.24	1.6	1717.76	4.9	1722.11	6.5	1711.99	3.6	1709.13	0.39	1721.60	1.5	1722.33	2.1	1721.11	0.29	1721.63	2.1	1721.22
10/25/19	0.15	1718.75	1.5	1717.97	4.9	1722.15	6.5	1712.00	3.6	1709.34	0.32	1721.80	1.5	1722.44	1.9	1721.26	0.33	1721.63	2.0	1721.31
10/26/19	0.15	1718.84	1.5	1718.01	4.9	1722.18	6.6	1712.00	3.6	1710.22	0.31	1721.78	1.5	1722.49	1.8	1721.31	0.40	1721.60	1.9	1721.33
10/27/19	0.15	1718.66	1.6	1717.74	4.9	1722.10	6.6	1711.99	3.6	1709.18	0.29	1721.83	1.4	1722.51	1.8	1721.29	0.49	1721.55	1.9	1721.26
10/28/19[2 4]	0.15	1718.93	1.6	1718.02	4.9	1722.15	6.6	1711.99	3.6	1709.13	0.30	1721.13	1.4	1722.62	1.8	1721.50	0.44	1721.68	1.9	1721.43
10/29/19	0.16	1718.69	1.6	1718.02	4.9	1722.12	6.5	1711.99	3.6	1709.67	0.85	1721.09	1.3	1722.51	2.6	1720.77	0.29	1721.66	1.7	1721.44
10/30/19	0.15	1718.86	1.6	1718.08	4.9	1722.14	6.5	1711.99	3.6	1709.47	0.65	1721.00	1.3	1722.52	3.0	1720.77	0.30	1721.69	1.7	1721.47
10/31/19	0.15	1719.03	1.6	1718.20	4.9	1722.18	6.5	1711.99	3.6	1709.83	0.67	1721.07	1.3	1722.54	3.0	1720.81	0.28	1721.72	1.7	1721.51
Monthly Average	0.15	1717.89	1.3	1717.91	4.9	1722.03	6.4	1712.00	3.6	1709.63	0.69	1720.30	1.5	1722.22	2.7	1720.68	0.32	1721.54	2.0	1721.07
Analytical[1]	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc[9] (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	1,100	10/8/2019	990	10/8/2019	620	10/9/2019	230	10/9/2019	235	10/9/2019	320	10/8/2019	410	10/8/2019	340	10/8/2019	800	10/8/2019	930	10/8/2019
Hexavalent Chromium	16	10/8/2019	14	10/8/2019	8.3	10/9/2019	3.8	10/9/2019	2.3	10/9/2019	0.50	10/8/2019	5.1	10/8/2019	4.4	10/8/2019	14	10/8/2019	14	10/8/2019
Total Chromium	17	10/8/2019	14	10/8/2019	8.8	10/9/2019	3.9	10/9/2019	2.2	10/9/2019	0.49	10/8/2019	4.9	10/8/2019	4.3	10/8/2019	17	10/8/2019	15	10/8/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

1: Analytical results are reported from TestAmerica.

2: On 10/07, 10/14, 10/21, and 10/28, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

3: On 10/10 and 10/22, the IWF system offline briefly for maintenance.

4: On 10/28, the IWF system was reset due to an instrument error.

6: On 10/14, I-D, I-E, I-L, I-M, I-N, I-O, I-P, and I-W adjusted to meet flow targets as directed by the Trust.

7: On 10/28, I-D, I-E, I-L, I-N, and I-Y adjusted to meet flow targets as directed by the Trust.

8: On 10/10, I-H offline briefly due to motor replacement.

9: Duplicates taken on 10/09 for well I-K; average of both values is presented and used for calculations.

10: On 10/10, I-L, I-Q, and I-W adjusted to meet flow target as directed by the Trust.

11: On 10/06, I-O adjusted to meet flow targets as directed by the Trust.

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																				
Date	I-Q		I-R		I-S		I-T		I-U		I-V		I-W		I-X		I-Y		I-Z	
	Flow[10 12 13] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[6 10 14] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[7] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation[15] (ft amsl)
10/01/19	0.23	1719.60	1.6	1714.82	3.7	1705.95	0.57	1707.87	0.64	1713.57	4.4	1719.75	0.82	1700.41	3.5	1717.33	1.4	1712.89	7.2	< 1707.89
10/02/19	0.21	1719.70	1.5	1714.92	3.7	1705.94	0.57	1707.84	0.58	1714.78	4.4	1719.76	0.82	1700.49	3.5	1717.34	1.4	1712.87	7.1	< 1707.89
10/03/19	0.20	1719.80	1.5	1715.04	3.7	1705.94	0.57	1707.84	0.57	1714.71	4.3	1719.19	0.83	1700.57	3.5	1717.36	1.4	1713.01	7.1	< 1707.89
10/04/19	0.19	1719.73	1.3	1715.02	3.7	1705.94	0.57	1707.87	0.57	1714.70	4.3	1719.78	0.83	1701.58	3.5	1717.35	1.4	1712.12	7.1	< 1707.89
10/05/19	0.20	1719.77	1.1	1716.71	3.7	1705.95	0.57	1707.84	0.58	1714.73	4.4	1719.81	0.84	1701.23	3.5	1717.37	1.4	1712.31	7.1	< 1707.89
10/06/19	0.19	1719.90	1.1	1717.09	3.7	1705.95	0.58	1707.85	0.58	1714.77	4.5	1719.83	0.84	1701.23	3.5	1717.39	1.4	1712.31	7.1	< 1707.89
10/07/19[2]	0.20	1719.90	1.1	1717.18	3.7	1705.95	0.57	1707.84	0.58	1714.83	4.4	1719.86	0.84	1700.17	3.5	1717.41	1.4	1714.24	7.1	< 1707.89
10/08/19	0.17	1720.05	1.1	1717.19	3.8	1705.92	0.58	1707.85	0.57	1715.00	4.4	1719.90	0.85	1700.49	3.5	1717.45	1.4	1713.83	7.1	< 1707.89
10/09/19	0.32	1718.63	1.0	1717.14	3.9	1705.92	0.58	1707.85	0.57	1714.92	4.3	1719.89	0.85	1700.12	3.5	1717.41	1.4	1713.91	7.2	< 1707.89
10/10/19[3]	0.28	1719.93	1.0	1717.33	3.9	1705.96	0.57	1707.85	0.77	1709.57	4.3	1719.90	0.80	1700.15	3.4	1717.55	1.4	1713.86	7.1	< 1707.89
10/11/19	0.16	1719.98	1.1	1717.19	3.9	1705.95	0.57	1707.85	0.84	1709.88	4.3	1719.93	0.71	1712.00	3.5	1717.63	1.3	1714.33	7.3	< 1707.89
10/12/19	0.16	1720.06	1.1	1717.10	3.9	1705.95	0.58	1707.85	0.78	1711.66	4.4	1719.94	0.66	1708.42	3.5	1717.63	1.3	1713.91	7.3	< 1707.89
10/13/19	0.16	1720.05	1.2	1716.86	4.0	1705.96	0.59	1707.85	0.74	1711.69	4.5	1719.97	0.63	1702.67	3.5	1717.65	1.3	1713.99	7.2	< 1707.89
10/14/19[2]	0.16	1720.11	1.2	1716.83	3.9	1705.96	0.58	1707.85	0.76	1712.13	4.4	1719.93	0.64	1718.45	3.5	1717.63	1.4	1714.64	7.2	< 1707.89
10/15/19	0.16	1720.12	1.2	1716.61	3.1	1705.95	0.58	1707.86	0.71	1712.26	4.4	1719.88	0.63	1720.18	3.5	1717.59	1.4	1715.48	7.2	< 1707.89
10/16/19	0.16	1720.11	1.2	1716.61	4.5	1705.97	0.58	1707.87	0.73	1712.08	4.3	1719.88	0.80	1711.17	3.5	1717.60	1.3	1714.55	7.2	< 1707.89
10/17/19	0.17	1720.04	1.2	1716.63	3.8	1705.96	0.58	1707.87	0.73	1712.18	4.3	1719.89	0.55	1720.02	3.5	1717.56	1.3	1712.51	7.2	< 1707.89
10/18/19	0.17	1720.00	1.3	1716.67	3.8	1705.95	0.57	1707.85	0.72	1712.38	4.3	1719.86	0.48	1719.71	3.5	1717.56	1.2	1712.05	7.3	< 1707.89
10/19/19	0.18	1720.02	1.3	1716.73	3.9	1705.96	0.58	1707.86	0.72	1712.12	4.4	1719.89	0.45	1717.69	3.5	1717.62	1.1	1714.59	7.3	< 1707.89
10/20/19	0.18	1720.03	1.2	1716.67	4.0	1705.95	0.58	1707.85	0.73	1712.19	4.5	1719.84	0.48	1718.85	3.5	1717.63	1.1	1715.52	7.2	< 1707.89
10/21/19[2]	0.18	1720.05	1.3	1716.69	4.0	1705.95	0.58	1707.85	0.73	1712.20	4.4	1719.84	0.47	1718.46	3.5	1717.65	1.1	1715.10	7.2	< 1707.89
10/22/19[3]	0.13	1720.16	0.94	1717.73	3.4	1705.99	0.45	1707.86	0.51	1714.62	3.4	1720.20	0.39	1722.04	2.7	1717.90	0.80	1722.62	5.6	< 1707.89
10/23/19	0.16	1720.22	1.2	1717.60	4.5	1705.99	0.59	1707.87	0.60	1714.49	4.4	1720.10	0.59	1719.52	3.5	1717.86	0.92	1718.47	7.0	< 1707.89
10/24/19	0.16	1720.19	1.2	1717.59	4.5	1705.99	0.59	1707.87	0.60	1714.37	4.3	1720.05	0.57	1719.18	3.5	1717.88	0.93	1718.46	7.0	< 1707.89
10/25/19	0.15	1720.34	1.1	1718.07	4.5	1706.00	0.59	1707.85	0.62	1714.04	4.3	1720.11	0.69	1718.50	3.5	1718.00	0.86	1717.49	7.0	< 1707.89
10/26/19	0.17	1720.34	1.1	1718.11	4.6	1706.01	0.58	1708.31	0.64	1713.81	4.4	1720.15	0.87	1719.81	3.5	1718.03	0.82	1718.87	7.0	< 1707.89
10/27/19	0.15	1720.36	1.1	1718.15	4.7	1706.00	0.57	1709.45	0.64	1713.91	4.5	1720.03	0.88	1719.22	3.5	1718.00	0.83	1718.12	7.0	< 1707.89
10/28/19[2 4]	0.16	1720.33	1.1	1718.29	4.7	1706.01	0.58	1707.88	0.64	1713.45	4.4	1720.13	0.88	1707.83	3.5	1718.15	0.83	1719.10	7.0	< 1707.89
10/29/19	0.25	1719.74	1.0	1717.98	4.5	1706.00	0.59	1707.88	0.67	1713.56	4.4	1720.08	0.56	1709.88	3.5	1717.91	1.2	1718.25	7.0	< 1707.89
10/30/19	0.23	1720.01	1.0	1717.92	4.4	1705.99	0.59	1707.88	0.66	1713.74	4.4	1720.11	0.58	1710.03	3.5	1717.92	1.3	1718.15	7.0	< 1707.89
10/31/19	0.21	1720.10	1.0	1717.93	4.3	1705.99	0.60	1707.87	0.65	1713.85	4.3	1720.17	0.55	1719.27	3.5	1717.94	1.3	1717.97	7.0	< 1707.89
Monthly Average	0.19	1719.98	1.2	1716.98	4.0	1705.96	0.57	1707.92	0.66	1713.30	4.3	1719.92	0.69	1710.95	3.5	1717.65	1.2	1715.34	7.1	< 1707.89
Analytical[1]	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	820	10/8/2019	690	10/8/2019	400	10/8/2019	1,200	10/8/2019	1,300	10/8/2019	680	10/9/2019	760	10/8/2019	570	10/8/2019	650	10/8/2019	290	10/9/2019
Hexavalent Chromium	14	10/8/2019	0.26	10/8/2019	0.71	10/8/2019	16	10/8/2019	16	10/8/2019	12	10/9/2019	14	10/8/2019	6.4	10/8/2019	0.46	10/8/2019	7.1	10/9/2019
Total Chromium	14	10/8/2019	0.27	10/8/2019	0.73	10/8/2019	17	10/8/2019	17	10/8/2019	12	10/9/2019	15	10/8/2019	6.8	10/8/2019	0.46	10/8/2019	7.5	10/9/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

1: Analytical results are reported from TestAmerica.

2: On 10/07, 10/14, 10/21, and 10/28, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

3: On 10/10 and 10/22, the IWF system offline briefly for maintenance.

4: On 10/28, the IWF system was reset due to an instrument error.

6: On 10/14, I-D, I-E, I-L, I-M, I-N, I-O, I-P, and I-W adjusted to meet flow targets as directed by the Trust.

7: On 10/28, I-D, I-E, I-L, I-N, and I-Y adjusted to meet flow targets as directed by the Trust.

10: On 10/10, I-L, I-Q, and I-W adjusted to meet flow target as directed by the Trust.

12: On 10/25, I-Q flow was reset due to an instrument error.

13: On 10/27, I-Q adjusted to meet flow targets as directed by the Trust.

14: On 10/15, I-W adjusted to meet flow targets as directed by the Trust.

15: A "<" preceding the water elevation indicates the reported water level is below the transducer. Average monthly water elevation calculations include the transducer elevation in instances where the water level is below the transducer.

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics

Date	LS #2	GWTP Effluent[1]				GW-11 Influent[1]				FBR Plant Influent[1]						
	Flow (gpm)	Flow[4 5] (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO_4 (mg/L)	Flow[6] (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO_4 (mg/L)	Flow[6 7] (gpm)	TA - ClO_4 (mg/L)	ETI - ClO_4 (mg/L)	TA - ClO_3 (mg/L)	TA - NO_3 - N (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)
10/01/19	952	60				0.00				1,013		113	130			
10/02/19	952	61	0.12	ND	530	0.00				1,012		139				
10/03/19	952	60				0.00				1,013		139				
10/04/19	968	60				0.00				1,028		143				
10/05/19	952	60				0.00				1,012	150	134				
10/06/19	952	58				0.00				1,010		150				
10/07/19[3]	952	59				0.00				1,011		149		8.5	0.015	0.014
10/08/19	985	55				0.00				1,040		145				
10/09/19	935	64	0.11	ND	610	0.00				999		143				
10/10/19	960	58				0.00				1,019		150				
10/11/19	955	59				0.00				1,013		180				
10/12/19	951	58				0.00				1,009	180	149				
10/13/19	951	58				0.00				1,010		177				
10/14/19[3]	951	59				0.00				1,010		175		11	0.021	0.018
10/15/19	952	60				0.00				1,012		183				
10/16/19	952	60	0.23	ND	560	0.00				1,012		180				
10/17/19	952	60				0.00				1,012		183				
10/18/19	957	60				0.00				1,017		170				
10/19/19	950	59				0.00				1,009	210	226				
10/20/19	949	59				0.00				1,008		192				
10/21/19[3]	950	60				0.00				1,010		203		10	0.0096	0.0081
10/22/19	949	46				358				1,000		239				
10/23/19	950	58	0.14	ND	570	4.8	0.062	ND	71	1,008		224				
10/24/19	957	58				0.00				1,015		228				
10/25/19	949	57				0.00				1,006		116				
10/26/19	950	58				0.00				1,008	310	203				
10/27/19	949	59				0.00				1,008		215				
10/28/19[3]	950	58				0.00				1,008		203		11	0.0050 B	0.0012
10/29/19	886	62				0.00				1,006		208				
10/30/19	809	61	0.16	ND	610	0.00				1,019		218				
10/31/19	903	62				0.00				1,015		199				
Monthly Average[2]	945	59	0.15	ND	577	12	0.062	ND	71	1,012	217	177	130	10	0.013	0.011

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading. The only exceptions are the instantaneous flow readings recorded for the 1st and 2nd Stage FBR flows.

ND = Not detected above laboratory method detection limit (ClO_4 = 0.5 ug/L; ClO_3 = 10 ug/L; NO_3-N= 0.055 mg/L, Cr(VI) = 0.25 ug/L).

B = Compound was found in the blank and in the sample.

1: ETI = Envirogen internal process control data, TA = TestAmerica data.

2: All average concentrations reported are monthly flow weighted averages.

3: On 10/07, 10/14, 10/21, and 10/28, the LS #2 totalizer was reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

4: On 10/22, the GWTP was offline briefly due to maintenance.

5: On 10/28, GWTP was reset due to instrument error.

6: Flows bypassed GW-11 Influent and FBR Plant Influent totalizers from 10/01 to 10/31 due to FBR plant influent strainers clogging, except for monthly sampling and maintenance.

7: From 10/01 to 10/31, the FBR Plant Influent Flow was estimated by summing flows for LS #2, GWTP Effluent, and GW-11 Effluent.

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics														
Date	1st Stage FBR[8]			2nd Stage FBR[8]			FBR Plant Effluent[1]							
	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow[9] (gpm)	TA - ClO_4 (mg/L)	ETI - ClO_4 (mg/L)	TA - ClO_3 (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - NO_3 - N (mg/L)	ETI - Turbidity (NTU)
10/01/19	1,018	6.3	-384	473	6.2	-341	1,013		0.00	0.022 J				64
10/02/19	1,058	6.4	-394	1,098	6.1	-353	1,034		0.00					54
10/03/19	1,075	6.3	-364	1,139	6.3	-325	884		0.00					46
10/04/19	1,083	6.4	-364	919	6.3	-325	1,020		0.00					46
10/05/19	1,074	6.4	-366	923	6.3	-332	1,060	ND	0.00					72
10/06/19	1,066	6.4	-377	979	6.4	-351	1,058		0.00					45
10/07/19	1,040	6.4	-381	959	6.4	-359	1,021		0.00		0.0027 J	ND	ND	32
10/08/19	1,055	6.4	-382	885	6.6	-356	1,024		0.00					18
10/09/19	1,052	6.4	-387	750	6.5	-352	993		0.00					28
10/10/19	1,028	6.3	-351	882	6.1	-345	1,029		0.00					57
10/11/19	1,063	6.3	-325	1,085	6.1	-360	1,021		0.00					54
10/12/19	1,048	6.4	-363	1,027	6.2	-365	1,039	ND	0.00					22
10/13/19	1,038	6.4	-344	921	6.4	-365	1,027		0.00					36
10/14/19	1,028	6.3	-356	678	6.4	-365	1,020		0.00		0.0044 J	ND	ND	27
10/15/19	1,072	6.3	-335	978	6.5	-368	1,029		0.00					28
10/16/19	1,062	6.3	-342	996	6.6	-369	1,043		0.00					38
10/17/19	991	6.3	-333	938	6.7	-375	1,024		0.00					36
10/18/19	1,062	6.3	-298	1,075	6.3	-372	1,023		0.00					26
10/19/19	1,045	6.3	-340	1,008	6.6	-378	1,033	ND	0.00					49
10/20/19	1,036	6.3	-292	1,018	6.3	-375	1,026		0.00					29
10/21/19	1,035	6.3	-323	552	6.3	-380	1,031		0.00		ND	ND	ND	15
10/22/19	1,040	6.2	-339	887	6.4	-360	229		0.00					9.0
10/23/19	1,082	6.3	-360	873	6.6	-379	1,022		0.00					15
10/24/19	1,046	6.3	-325	949	6.3	-356	1,043		0.00					44
10/25/19	1,049	6.3	-325	909	6.4	-371	1,034		0.00					44
10/26/19	1,061	6.3	-321	919	6.8	-375	1,061	ND	0.00					16
10/27/19	1,057	6.3	-358	893	6.3	-379	1,049		0.00					15
10/28/19	1,023	6.4	-377	1,009	6.1	-383	1,020		0.00		ND	ND	ND	33
10/29/19	1,002	6.3	-368	693	6.3	-381	997		0.00					11
10/30/19	1,072	6.3	-374	925	6.0	-380	1,004		0.00					21
10/31/19	1,061	6.3	-378	1070	6.2	-383	1,043		0.00					55
Monthly Average[2]	1,049	6.3	-352	916	6.3	-363	999	ND	ND	0.022	0.0019	ND	ND	36

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading. The only exceptions are the instantaneous flow readings recorded for the 1st and 2nd Stage FBR flows.

ND = Not detected above laboratory method detection limit (ClO_4 = 0.5 ug/L; ClO_3 = 10 ug/L; NO_3-N= 0.055 mg/L, Cr(VI) = 0.25 ug/L).

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

1: ETI = Envirogen internal process control data, TA = TestAmerica data.

2: All average concentrations reported are monthly flow weighted averages.

8: For 1st and 2nd stage FBRs, flow measurements are collected from the influent lines and pH and ORP samples are collected from the recycle lines.

9: FBR Plant Effluent represents effluent discharged to Las Vegas Wash. While this may represent the entirety of the FBR Plant effluent, any diversions to GW-11 are subtracted from the original effluent flow.

GW-11 Level Monitoring[1]		
Date	Field Measurement (ft)	Volume (MG)
10/15/19	30.2	36.4
10/31/19	29.9	36.8

GW-11 Leak Detection Monitoring				
Date	Amount Pumped[2] (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
10/16/19	0	26	272	0
10/30/19	0	2	206	0

GW-11 Composite Sample[3]			
Analytes	Concentration		Units
Perchlorate	2.8		mg/L
Chlorate	1.9		mg/L
Ammonia as N	0.35		mg/L
Total Phosphorus	0.56		mg/L
Total Dissolved Solids (TDS)	11,000		mg/L
Total Suspended Solids (TSS)	72		mg/L
pH	8.1	HF	s.u.
Calcium	480		mg/L
Iron	0.67		mg/L
Chromium (total)	0.056		mg/L
Chromium VI	ND	H H3	mg/L
Chloride	3,500		mg/L
Nitrate as N	ND	H	mg/L
Sulfate	3,000		mg/L

Notes:

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

H = Sample was prepped or analyzed beyond the specified holding time

H3 = Sample was received and analyzed past holding time.

ND = Not detected above laboratory method detection limit (NH_3-N= 0.1 mg/L; Total P = 0.025 ug/L; Cr(VI) = 0.25 ug/L).

1: A transducer installed along the eastern berm provides water pressure measurements that are correlated to elevations for calculation of water depths. Results from a December 2018 bathymetric survey of the pond will be used to identify adjustment to the procedure, if necessary.

2: Pumping occurs over three consecutive days. The total amount pumped over the three day period is listed with the last day pumping occurred.

3: GW-11 Corner Composite Sample is collected quarterly, most recent sampling results are presented. Sampled on: August 2, 2019.

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics						
Date	Flow[1] (gpm)	FBR Influent Concentration			Influent Function Load[3] (lbs/day)	6 Month Rolling Average (lbs/day)
		ClO_4 [2] (mg/L)	NO_3 as N (mg/L)	ClO_3 (mg/L)		
Nov 2018	1,042	262	9.9	130	979	771
Dec 2018	1,046	262	10	140	1,009	811
Jan 2019	1,067	247	10	140	991	861
Feb 2019	1,070	264	9	130	997	922
Mar 2019	1,035	233	10	140	932	962
Apr 2019	1,038	102	10	89	529	906
May 2019	1,027	118	11.1	140	677	856
June 2019	1,009	138	6	120	620	791
July 2019	1,007	102	10	140	621	729
Aug 2019	1,005	123	10	140	664	674
Sep 2019	1,015	123	11.2	130	662	629
Oct 2019	1,012	217	10.0	130	852	683

Notes:

Concentrations and flow are presented as monthly average.

1: Flow used in loading calculation is average monthly FBR effluent flow to be consistent with historical loading calculations.

2: Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was decreased in March 2019 to prepare for the lower seasonal ammonia permit limits beginning April 1. The AP-5 wash water feed rate was increased on October 1, 2018 in accordance with the higher seasonal ammonia permit limits beginning October 1.

3: FBR loading calculated as $[(0.9*NO_3 \text{ as } N + 0.17*ClO_3 + 0.18*ClO_4)*Flow*1440/1000000*8.34]$.

Table 7 - AP Area Operational Metrics

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Enhanced Operational Metrics																
Date	E1-1		E1-2		E1-3		E2-1		E2-2		E2-3		E2-4		E2-5	
	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[2] (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow[3] (gpm)	Water Elevation (ft amsl)
10/01/19	3.1	1711.43	1.2	1716.27	0.87	1710.42	1.2	1714.71	1.7	1716.23	1.7	1717.38	1.7	1714.13	0.50	1713.97
10/02/19	2.4	1711.35	1.2	1711.32	0.87	1710.17	1.2	1716.52	1.7	1715.53	1.6	1715.93	1.7	1714.02	0.49	1714.17
10/03/19	2.7	1711.38	1.3	1709.77	0.76	1710.14	1.1	1708.72	1.7	1713.77	1.4	1713.56	1.6	1713.93	0.51	1713.49
10/04/19	2.8	1711.62	1.3	1710.46	0.82	1717.90	0.96	1718.76	1.5	1716.45	1.4	1720.13	1.6	1713.94	0.47	1717.04
10/05/19	2.6	1712.58	1.3	1711.29	0.82	1717.47	0.97	1719.50	1.5	1716.81	1.4	1720.55	1.6	1715.75	0.49	1716.44
10/06/19	2.6	1712.74	1.3	1710.57	0.83	1717.52	0.97	1713.40	1.5	1717.40	1.4	1716.66	1.6	1716.67	0.49	1713.89
10/07/19	2.6	1714.07	1.3	1709.24	0.87	1713.99	1.2	1719.27	1.5	1718.01	1.5	1719.77	1.6	1717.01	0.52	1715.12
10/08/19	2.8	1714.45	1.2	1709.40	0.85	1712.54	1.1	1715.91	1.6	1718.51	1.6	1718.45	1.5	1717.32	0.52	1714.77
10/09/19	2.7	1711.06	1.3	1709.68	0.84	1711.40	1.1	1716.17	1.6	1717.07	1.6	1717.29	1.5	1717.47	0.49	1713.36
10/10/19	2.7	1709.21	1.2	1709.16	0.84	1710.96	1.1	1716.28	1.5	1716.95	1.6	1717.50	1.5	1716.24	0.50	1714.10
10/11/19	2.7	1707.52	1.3	1707.88	0.83	1710.80	1.1	1716.57	1.5	1716.78	1.4	1717.37	1.5	1715.91	0.47	1715.00
10/12/19	2.7	1705.10	1.2	1709.49	0.85	1710.37	1.1	1714.77	1.5	1715.93	1.4	1716.77	1.5	1715.75	0.48	1712.90
10/13/19	2.5	1705.78	1.3	1710.86	0.85	1709.71	1.1	1713.74	1.3	1714.83	1.4	1717.20	1.5	1715.45	0.41	1712.14
10/14/19	3.0	1715.72	1.2	1709.58	0.87	1710.87	1.1	1717.42	2.1	1718.22	1.5	1719.41	1.5	1718.86	0.50	1718.25
10/15/19	2.4	1714.62	1.2	1709.84	0.83	1711.77	1.1	1715.59	1.5	1718.33	1.6	1719.43	1.6	1718.03	0.22	1714.06
10/16/19	2.8	1711.82	1.3	1709.68	0.84	1711.37	1.2	1717.83	1.6	1719.01	1.6	1717.75	1.6	1717.55	0.51	1723.05
10/17/19	2.7	1716.41	1.2	1706.13	0.85	1708.16	1.2	1712.70	1.5	1713.00	1.5	1712.74	1.6	1712.39	0.50	1710.56
10/18/19	2.7	1712.21	1.2	1706.72	0.83	1707.82	1.1	1712.42	1.5	1712.72	1.5	1714.09	1.6	1712.59	0.51	1713.41
10/19/19	2.7	1708.56	1.2	1705.19	0.83	1708.40	1.1	1713.13	1.5	1713.43	1.4	1714.91	1.6	1714.10	0.49	1710.95
10/20/19	2.7	1711.01	1.2	1706.35	0.83	1708.07	1.1	1712.88	1.5	1713.18	1.4	1714.53	1.6	1713.40	0.48	1712.10
10/21/19	2.4	1710.32	0.89	1707.75	0.74	1708.41	1.0	1712.11	1.3	1713.02	1.3	1714.80	1.4	1713.96	0.42	1712.31
10/22/19	2.7	1724.68	1.2	1724.51	0.90	1725.90	1.2	1728.90	1.4	1728.36	1.0	1729.31	1.5	1729.19	0.51	1729.01
10/23/19	2.6	1715.08	1.1	1711.16	0.90	1710.92	1.2	1714.68	1.4	1717.45	1.0	1722.45	1.6	1718.21	0.58	1719.89
10/24/19	2.6	1715.37	1.1	1714.22	0.91	1711.47	1.1	1715.97	1.4	1720.17	0.97	1722.19	1.5	1718.19	0.58	1713.47
10/25/19	2.6	1714.48	1.1	1714.34	0.90	1711.64	1.2	1716.12	1.4	1717.80	1.0	1723.27	1.5	1716.86	0.59	1718.00
10/26/19	2.8	1715.68	1.1	1714.23	0.88	1712.80	1.2	1716.06	1.4	1717.37	1.0	1721.77	1.5	1715.80	0.57	1710.00
10/27/19	2.7	1714.82	1.0	1714.35	0.86	1712.45	1.2	1716.22	1.4	1717.62	1.4	1720.80	1.5	1716.40	0.58	1713.91
10/28/19	2.5	1711.34	0.99	1714.71	0.78	1712.82	0.94	1716.12	1.3	1720.02	1.0	1721.05	1.2	1717.94	0.06	1707.47
10/29/19	2.8	1712.02	1.1	1714.64	0.89	1711.47	1.0	1717.27	1.5	1717.30	1.2	1717.03	1.4	1717.93	0.00	1709.91
10/30/19	2.7	1713.07	1.1	1713.67	0.87	1711.92	1.0	1716.84	1.5	1716.30	1.2	1722.25	1.4	1718.01	0.08	1712.22
10/31/19	2.7	1713.88	1.0	1713.34	0.87	1712.46	1.0	1717.07	1.4	1717.57	1.3	1721.05	1.3	1719.46	0.62	1715.86
Monthly Average	2.7	1712.56	1.2	1711.16	0.85	1712.01	1.1	1715.92	1.5	1716.94	1.4	1718.63	1.5	1716.53	0.46	1714.54
Analytical[1]	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc[4] (mg/L)	Date
Perchlorate	520	10/15/2019	1,600	10/15/2019	720	10/15/2019	130	10/15/2019	320	10/15/2019	650	10/15/2019	920	10/15/2019	1,500	10/15/2019
Hexavalent Chromium	0.040	10/15/2019	0.22	10/15/2019	0.38	10/15/2019	0.029	10/15/2019	0.024	10/15/2019	0.025	10/15/2019	0.038	10/15/2019	0.11	10/15/2019
Total Chromium	0.039	10/15/2019	0.21	10/15/2019	0.37	10/15/2019	0.030	10/15/2019	0.044	10/15/2019	0.046	10/15/2019	0.042	10/15/2019	0.11	10/15/2019

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading.

The flow rate at individual wells is adjusted daily to maintain the water level in the wells above the pump.

1: Analytical results are reported from TestAmerica.

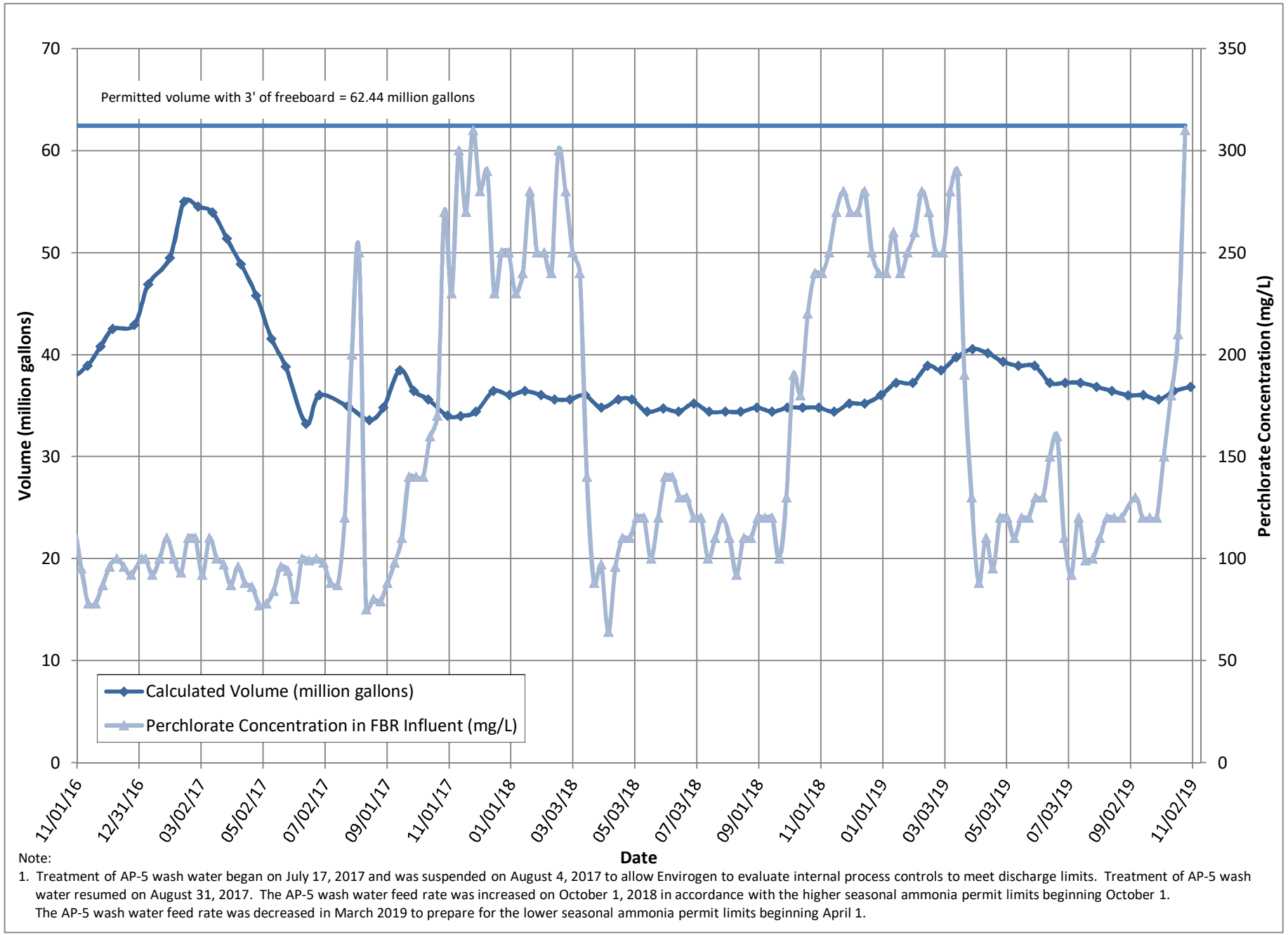
2. On 10/03, well E1-3 was offline briefly due to instrument error.

3: From 10/29-10/31, well E2-5 was offline intermittently due to instrument error and motor replacement.

4: Duplicates taken on 10/15 for well E2-5; average of both values is presented and used for calculations.

Table Updated: 11/18/2019

Figure 1 - GW-11 Pond Volume and FBR Influent Perchlorate Concentration

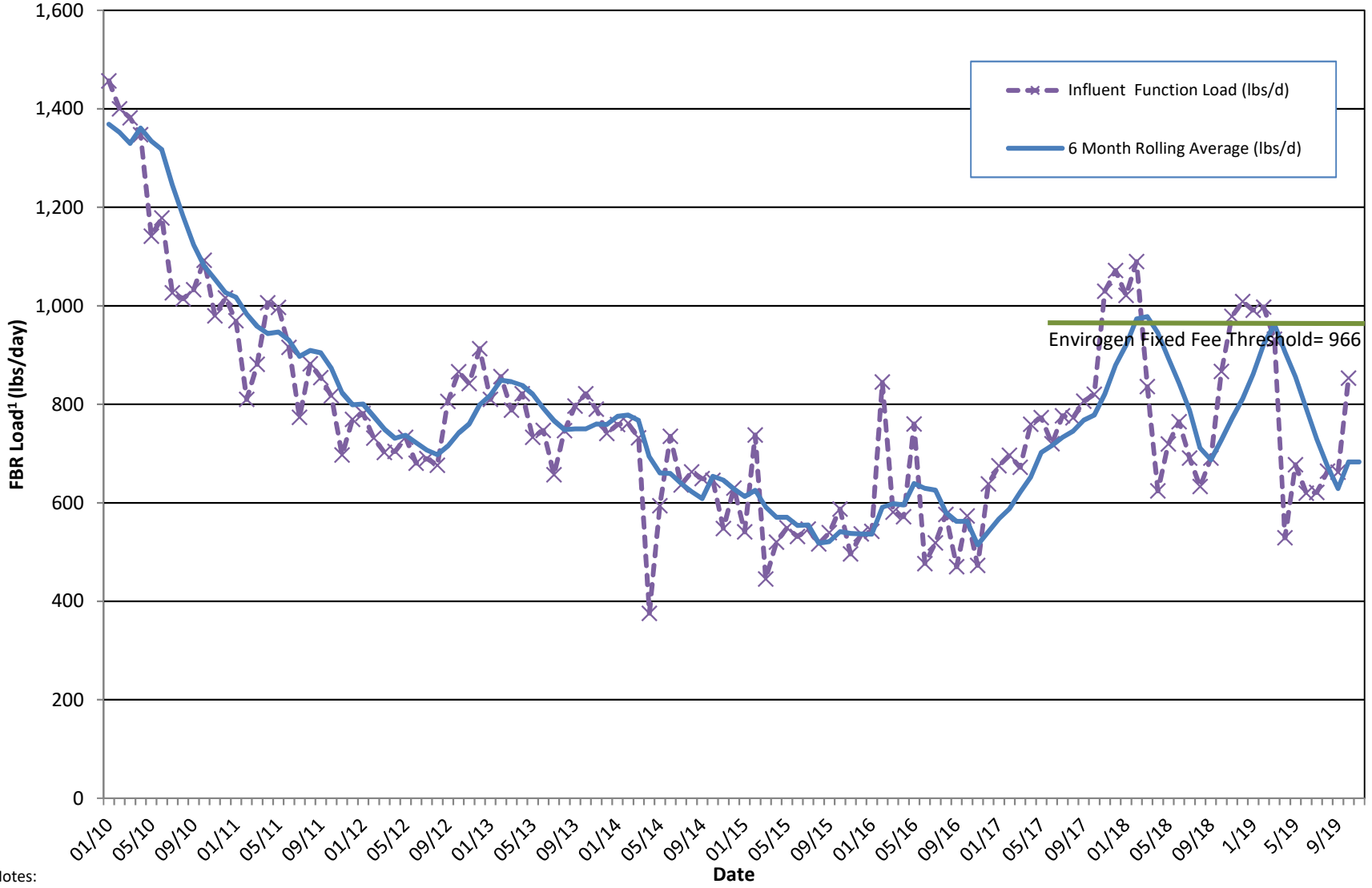


Note:

1. Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was increased on October 1, 2018 in accordance with the higher seasonal ammonia permit limits beginning October 1. The AP-5 wash water feed rate was decreased in March 2019 to prepare for the lower seasonal ammonia permit limits beginning April 1.

Figure Updated: 11/18/2019

Figure 2 - FBR Equivalent Loading Calculation



Notes:

1: FBR Load calculated as [(0.9*NO_3 as N + 0.17 * ClO_3 + 0.18*ClO_4)*Flow*1440/1000000*8.34]

2. Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was increased on October 1, 2019 in accordance with the higher seasonal ammonia permit limits beginning October 1. The AP-5 wash water feed rate was decreased in March 2019 to prepare for the lower seasonal ammonia permit limits beginning April 1.

Figure Updated: 11/18/2019