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**To:** Nevada Division of Environmental Protection  
Nevada Environmental Response Trust

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**Cc:** Nevada Environmental Response Trust Stakeholders

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**From:** Jeff Lambeth, Director of Operations

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**Date:** December 20, 2016

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**Subject:** NERT – GWETS Operation Monthly Report – December 2016

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At the request of the Nevada Environmental Response Trust (Trust), Envirogen Technologies, Inc. (ETI) is providing this summary of the groundwater extraction and treatment system (GWETS) operation and performance during December 2016.

### **Summary of GWETS Operation**

Envirogen Technologies, Inc. (ETI) mechanically operated the GWETS normally in December 2016. The flow rate to the plant averaged approximately 979 gallons per minute (gpm) during December 2016. At the end of the month, the GW-11 Pond volume was at 42.9 million gallons (MG), which would allow 13.6 days of available additional storage in the event of an emergency plant shutdown with continued well field pumping. The water volume stored in the GW-11 Pond increased approximately 2.1 MG from the end of November 2016. Figure 1 in this report depicts the actual GW-11 pond volumes and additional storage available.

The influent perchlorate concentration to the FBR plant averaged 96 mg/L for the month, with a maximum concentration of 100 mg/L. In comparison, the influent perchlorate concentration for the month of November 2016 averaged 86 mg/l, with a maximum concentration of 110 mg/l.

Analytical data indicate that the permitted effluent discharges at GWETS Outfall 001 were within the NPDES permitted numerical discharge limits (Please see Attachment A, prepared by Ramboll Environ).

### **Enhanced Operational Metrics**

Tables 1 and 2 provide a summary of the current GWETS operational metrics data for flow rates, perchlorate and chromium concentrations, and mass removal. Figure 2 graphically presents historical perchlorate and chromium mass flux information.

### **Operational Issues**

All routine plant repairs conducted by ETI were performed in accordance with the NERT Perchlorate Treatment System Operations Manual. The following is a list of operational issues and major repairs and/or equipment replaced during this reporting period.

## 1. GW-11

- Continued maintenance and upgrade activities at the Lift Stations required the operators to use the GW-11 pond for influent equalization beginning on December 15th at 8:00am with a return to TK-101 equalization later that day at 1:40pm. Use of the GW-11 pond for equalization resumed on December 19th to facilitate integration of the IX treatment system at Lift Station 1. Completion of key upgrade activities allowed the operators to switch back to using the TK-101 tanks for influent equalization beginning December 25th. The plant operators adjusted operations to compensate for the change in influent equalization.

## 2. Biological Plant

There were no significant plant interruptions. There were two unplanned diversions into GW-11 for the month of December. Below is a description of the short duration events that occurred:

- Effluent Diversion to GW-11 on December 13th from 1:00pm to 2:00pm. The plant effluent was diverted to conduct maintenance activities on a Combo/Air Release valve on the effluent pipeline.
- Effluent Diversion to GW-11 on December 23rd from 8:34am to 2:40pm. The plant effluent was diverted to conduct maintenance activities on a Combo/Air Release valve on the effluent pipeline.

## 3. Spills

There was one reportable spill in the month of December.

On Wednesday December 7, 2016, at approximately 4:00pm, Envirogen informed the Trust it had a failure of a pressure relief rupture disc in the Equalization Area at approximately at 3:43 pm. These rupture discs are designed to protect the Liquid Granular Carbon Absorption tanks which are part of the equalization feed to the FBR plant. This event was summarized in the Trust's letter to NDEP BWPC dated December 12, 2016 submitted consistent with permit requirements.

## 4. Maintenance

- Major maintenance performed by ETI in the month included:
  - PLC Panel, EQ Area- A loss of communication between the EQ area and the Control Room occurred. A loose grounding was identified and the wire connections were repaired.
  - FIT-PC133, SWF-PC-133 to LS#1- The flow meter value was frozen and unresponsive. ETI rebooted the flow meter and changed the applicable parameters.
  - GWTP, IWF, Well I-R – The pump motor faulted due to over current. ETI replaced the motor with a new 0.5 hp motor.
  - AWF, Well ART-2A, LS#3 - The VFD faulted due to damage at one of the motor leads. The 2 hp motor was removed and replaced with a larger 3 hp motor.
  - IWF, Well I-U - The pump motor faulted due to over current. ETI pulled the well pump and replaced the motor with a new 1/2 hp Franklin Motor and the wiring pigtail.
  - AWF, Wells ART-2a, 3a, and 4a - New 1 hp and 2 hp Franklin motors were installed in wells ART 2a (2hp), 3a (2hp), and 4a (1hp). There was an electrical fault in the wiring connection going to the motors. New electrical connections were also completed and the pumps are ready for service.
  - S-GAC - The rupture disc on the S-GAC was replaced with a new disc, and the GAC was

- brought back into service.
- VIII. Effluent Pipeline - The isolation valve was worn from age on an air release valve on the effluent pipeline. There was a short diversion to drain the line to replace the isolation valve.
  - IX. Sand Filter - The sand filter was taken offline for routine maintenance when it was discovered that the rubber coupling connecting the header to the external piping was damaged. The sand filter was then drained and the damaged coupling was removed. A new expansion joint has been ordered to replace the coupling.
  - X. FBR 1 - A new 6" Spears butterfly valve was installed on FBR 1. The old valve had a small leak from the stem that connects the valve to the electric actuator.
- Preventative Maintenance completed or being performed by ETI in the month included:
    - I. Sequence Test-Test all Alarm - ETI Tested all signals related to the auto plant shutdown.
    - II. PH and ORP online analyzers - ETI Calibrated and Standardized Units with buffer solutions.
    - III. Plant Computer - ETI created a backup and cleaned the dust filters.
    - IV. LIT-2011, Separator 1 T-2011 Level - ETI checked the electrical signal. The transmitter responds to level changes. No visible issues were observed.
    - V. Sump Pumps - All of the sump pumps including p-1101, p-1102, and p-1203 were inspected and tested for proper operation.
    - VI. AWF "buddy wells" – Each well was tested. The motors were replaced in ART 2a, 3a, and 4a and all wells are functioning correctly.
    - VII. DAF – the vessels were inspected and no faults were found.
    - VIII. Air compressors - each unit was inspected and full service has been scheduled for January.

## GWETS Upgrades and Facility Projects

The following is a summary of the initiatives in-progress during the reporting period at the direction of the Trust:

1. **AP-5 Solids Removal**  
Tetra Tech continued to move forward with the AP-5 Solids Removal project and initiated transfer of the contents of the AP-5 Pond to the tanks. Sediment washing was initiated as the material was transferred to the tank but decant liquids are not expected to be ready for treatment until mid-2017.
2. **Lift Station #1 upgrades**  
ETI completed the process of implementing infrastructure improvements at Lift Station 1 and the addition of an Ion Exchange system in December. The IX equipment and lift station improvements are installed. The IX system completed startup and a treatment sample was generated for testing. All lift station improvements are online. Final cleanup of punch list items, record documentation and O&M manual will be completed before the end of Jan 2017.
3. **IWF well modifications**  
A proposal for the IWF has been prepared to address the Trust's desire to improve the flow meter accuracy and installation of VFDs on the extraction pumps. This proposal was submitted by ETI Engineering and is currently under review by the Trust.
4. **Spill containment enhancements**  
A proposal for secondary containment modifications has been assembled by ETI Engineering and is currently under review by the Trust.

### **ECT Audit Findings**

ETI has been addressing the recommendations provided in the Independent Audit of the GWETS performed by ECT. Table 3 summarizes the status of the ECT Audit findings. Progress is reported in the Status column. Updates from the prior reporting period appear in bold, underlined text.

### **Equipment Availability Tracking**

ETI operators continue to update the equipment tracking form on a weekly basis or whenever there is a change in the status of key equipment. During regular site visits, Tetra Tech field personnel verify the entries on the form, including both the operating status and confirmation of the inventory of required shelf spares. The equipment tracking form is included as Attachment B.

### **GWETS Staffing**

ETI continues with 24-hour staffing of the GWETS at the direction of the Trust and continues to follow the security procedures in the Standard Operating Procedures (SOP).

# Tables

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*Operational Metrics*

Nevada Environmental Response Trust   Groundwater Extraction and Treatment System   Monthly Stakeholder Metrics				
Location ID	Average Flow Rate (gpm)	Perchlorate (mg/L) <sup>4 5</sup>	Chromium (TR) (mg/L) <sup>4 5</sup>	Chromium(VI) (mg/L) <sup>4 5</sup>
SWF Total Extraction <sup>2</sup>	465 <sup>1</sup>	11	ND	0.00035
AWF Total Extraction <sup>2</sup>	417 <sup>1</sup>	111	0.26	0.24
IWF Total Extraction <sup>2</sup>	62 <sup>1</sup>	795	8.1	7.6
AP Area Total Extraction	2.0	1,824	NA	0.024
GWTP Effluent <sup>3</sup>	70	847	0.36	ND
GW-11 Influent <sup>2</sup>	125	38	0.065	0.057
GW-11 Effluent/ FBR Influent <sup>3</sup>	979	96	0.060	0.047

## Notes:

TR = Total Recoverable; NA = Not Analyzed; ND = Not detectable above laboratory method detection limit (Chromium (VI) = 0.25 ug/L).

1: Sum of daily average flow for individual wells.

2: Perchlorate and chromium TR sampled monthly, values reported from TestAmerica.

3: Perchlorate, chromium TR and chromium (VI) sampled weekly, values reported from TestAmerica.

4: All concentrations reported are monthly flow weighted averages.

5: ND analytical values are treated as zero values in the flow weighted average calculations.

Nevada Environmental Response Trust   Groundwater Extraction and Treatment System   Monthly Stakeholder Metrics			
Location ID	Perchlorate (lbs/month) <sup>1</sup>	Chromium (TR) (lbs/month) <sup>1</sup>	Chromium (VI) (lbs/month) <sup>1</sup>
SWF Total Extraction	1,956	0.00	0.06
AWF Total Extraction	17,320	40	38
IWF Total Extraction	18,431	188	177
AP Area Total Extraction	1,309	NA	0.02
GWTP Effluent	22,184	9.4	0.00
GW-11 Influent	1,769	3.0	2.7
GW-11 Effluent/FBR Influent	34,885	22	17

Notes:

TR = Total Recoverable; NA = Not Analyzed.

1: Total mass extracted is calculated from flow weighted average concentration and average flow (see Table 1).

**Table 3 - Status of ECT Audit Recommendations**

<b>LS #1 and Seep Field</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1	Priority A	<p>Lift Station #1 should be evaluated for repair and upgrade.</p> <p>a. A high priority should be placed on abandoning and replacement of the flexible hoses and the aging parallel piping at Lift Station #1.</p> <p>b. Lift Station #1 should be re-evaluated to assure that the designs, and the materials of construction, are consistent with the current and future facility needs in full recognition that this operation is likely to continue for a significant period of time.</p>	<p><b><u>Completed</u></b>  <b><u>The flexible hoses were replaced as part of the IX Upgrade. Rigid above ground extraction well piping will be replaced following startup of the new IX treatment system.</u></b></p> <p><b><u>During the design of the Lift Station 1 upgrades ETI selected materials of constructed to ensure long-term reliability.</u></b></p>
2	Priority A	<p>The SWF vaults should be sealed using commercially available sealants used in Industry and wastewater treatment to prevent exfiltration.</p>	<p><b><u>Completed.</u></b> ETI inspected all Seep Well Field vaults and sealed all vault penetrations with recommended foam.</p>
3	Priority A	<p>The SWF well fields should be inspected and aging wells replaced as practicable. Much of the above grade plumbing is old and unreliable. Also, some of the wells cycle on and off fairly rapidly. This would indicate that the groundwater has been lowered or more likely, the well screens have become fouled, limiting the flow into the well.</p> <p>The local hydrogeology around the rapidly dewatering wells should be analyzed and the wells should be replaced if it is determined that they have become fouled.</p>	<p><b><u>In Process</u></b></p> <p><b><u>The flexible hoses were replaced as part of the IX Upgrade. Rigid above ground extraction well piping will be replaced following startup of the new IX treatment system.</u></b></p> <p>Aquifer evaluation of the SWF is currently ongoing as part of the COP. If necessary, well maintenance activities will be performed to improve well yield.</p>
4	Priority A	<p>The Audit Team recommends that ETI consider using a screening process capable of managing a higher solids content to address issues including the Boatmen bug spawns.</p>	<p><b><u>Closed - This issue occurs twice per year in spring and fall for a few weeks each time. ETI feels this is not necessary in light of future plans for the GW-11 pond, and this issue would be mitigated by those plans. Based on ETI's research, this is a common problem in ponds in the area.</u></b></p>
5	Priority A	<p>The auditors observed an area where crystals of unknown nature have formed at PC-99 R2/R3. NERT should sample the observed crystals and analyze their composition at the earliest opportunity. The R3 well enclosure had standing water and crystals formed both inside and outside of the well vault. The Audit Team also noted a damp area extending from the R3 vault to about 10 to 15 feet from the enclosure. The Audit Team did not collect samples from the damp area or of the observed crystals. While it is possible that the observed crystals are not perchlorate but rather salts resulting from the extremely hard water in the area, with no data available, caution should be observed.</p>	<p><b><u>Closed</u></b>  Crystals were hard water calcium from a leaking flange gasket. This area was cleaned and a new gasket was installed.</p> <p>NERT collected a soil sample immediately below the salt crystals previously observed on November 18, 2016 for laboratory analysis. During the sampling event NERT discovered that the salt crystals were no longer present on the side of the well vault. Salt crystals in this area tend to be transient</p>



			<i>in nature. The analytical results indicate the presence of perchlorate in soil at a concentration of 19 mg/kg. This concentration is below the NDEP's Residential Basic Comparison Level. However, this situation will be further evaluated as part of the Phase 2 Remedial Investigation.</i>
6	Priority B	A detailed inspection of the SWF underground piping should be performed to estimate the remaining useful life.	<u>Closed</u> <i>As part of the RI/FS NERT will re-evaluate the SWF and its conveyance piping.</i>
7	Priority B	All abandoned equipment should be removed from the operating areas of the operation.  To be further examined by the Trust.	<u>Ongoing</u> <i>Abandoned equipment will be removed as various upgrades occur throughout the plant.</i>
8	Priority B	The access doors at the SWF vaults should be replaced with doors that have modern safety latches and are physically manageable in order to make inspection access easier for the operating staff.	<u>Closed</u> <i>ETI does not believe that modifications are necessary to operate the doors. Our staff believe they can safely operate the doors.</i>
9	Priority B	Concurrent with plans to expand the loading of perchlorate to the FBRs, the capacity of the solids handling systems in general, and the DAFs specifically, should be evaluated for upgrade.	<u>Closed</u> <i>Completed, both of the DAFs have recently been rehabilitated. The DAF design is more than adequate for the solids generated a full plant load.</i>
10	Priority B	The remaining Penn Valley Double Disc Pumps should be replaced with air-driven double diaphragm pumps as they fail. There should be a review of the need for additional process air to operate the new pumps.	<u>In Process</u> <i>Currently ETI is in progress with the pump replacements. Two of the 4 pumps have been replaced with air-driven diaphragm pumps, the remaining 2 Penn Valley Double Disc Pumps will be replaced as they fail.</i>
11	Priority C	A hydraulic analysis should be performed from the discharge port of the variable frequency pumps to the discharge point at the Las Vegas Wash to identify (and eliminate) the areas of highest flow loss.	<u>Complete</u> <i>NERT has completed a pipeline flow evaluation and is planning infrastructure upgrades in 2017 to address this issue.</i>
12	Priority C	As the submersible pumps reach the end of their useful life, they should be replaced with more appropriate technology, such as vertical turbine pumps, for increased reliability and ease of service.	<u>Complete</u> <i>Vertical turbine pumps were installed as part of the upgrade project for both LS-3 and LS-2.</i>

<b>Job Cal (Maintenance Management Program) and Data Control</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1	Priority A	Incorporate all contractor supplied maintenance into the JobCal system.	<u>Complete</u> <i>All contractor supplied maintenance activities are being logged in the JobCal computer maintenance management system.</i>
2	Priority B	Improve detail captured in JobCal to include actual level of effort expended in repairs.	<u>Complete</u> <i>ETI has worked with the staff to improve the capture</i>

			<i>of information and detail that is logged into the JobCal computer maintenance management system.</i>
3	Priority B	Streamline the management of water quality data to assure accountability.	<i><u>Complete</u> NERT has established a new data transfer protocol that streamlines the management of water quality data amongst the NERT team members. External accessibility will be improved with the implementation of GWETS/NET</i>
<b>Operations Monitoring</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1		Complete conversion of All SCADA systems to a single system – presumably the Siemens system.	<i><u>In Process</u> The existing Chromium Treatment Plant control system will be replaced when this plant is upgraded or replaced.</i>
2		Incorporate online access and back-up to allow ETI experts to remotely observe and control operations.	<i><u>In Process</u> GWETS/NET will provide remote access to operational data by NERT and ETI.</i>
<b>Facilities Maintenance</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1	Priority A	Infrared electrical surveys should continue to document any potential degradation of electrical and mechanical connections over time and use.	<i><u>Complete</u> The initial plant survey was completed and actions where needed was taken. The next survey has been incorporated into Job Cal as a re-occurring (PM) event, and is scheduled again for December 2016.</i>
2	Priority A	The electrical grounding within the plant should also be reassessed to make sure that no ground faults are present.	<i><u>Complete</u> ETI brought in a certified electrician who identified motor skids that were not properly grounded. Since then ETI has installed grounding where it was missing. Based on the site electrical drawings, all known discrepancies have been addressed.</i>
3	Priority A	Limit the length of wiring run from the VFD to the motor/pump units to a maximum of 150 feet.	<i><u>Complete</u> Any VFD systems to be installed will have a limited cable run, less than 150 feet or based on manufacturers recommendations.</i>
4	Priority A	The motor bearings in motor units operated with VFDs should be lubricated utilizing conductive grease to prevent electrical arcing within the motor bearings even if a ground fault occurs.	<i><u>Complete</u> ETI is currently using conductive grease. The use of conductive grease is currently being logged into Job Cal.</i>

5	Priority A	Utilize full Asset Management Capabilities of Job Cal. As per above,	<u>Complete</u> ETI has further leveraged Job Cal and will continue to expand its use in facility operations.
6	Priority A	Incorporate age of equipment and expected serviceable life for all major equipment.	<u>Complete</u> ETI has further leveraged Job Cal and will continue to expand its use in facility operations.
7	Priority A	Incorporate all contractor supplied maintenance into the JobCal system.	<u>Complete</u> ETI has further leveraged Job Cal and will continue to expand its use in facility operations.
8	Priority B	Improve detail captured in JobCal to include actual level of effort expended in repairs.	<u>Complete</u> ETI has further leveraged Job Cal and will continue to expand its use in facility operations.
<b>Training</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1	Priority B	Improved documentation of operator training is recommended. The operators have been taught how to operate the equipment but the documentation and supporting information for training provided and received was lacking – unlike the other training provided on-site.	<u>In Progress</u> ETI is continuing to improve new employee training and documentation of said program. The training program and the appropriate documentation will be complete by April 2017.
<b>HazWaste and Recycling</b>			
<b>Number</b>	<b>Ranking</b>	<b>Issue Description</b>	<b>Status</b>
1	Priority B	Install a can puncturer and develop a program to handle aerosol cans to assure that the waste cans are "RCRA empty" at atmospheric pressure.	<u>Complete</u> Complete and on-site.
2	Priority B	Containers storing used oil should be labeled correctly and be moved to a location where they are protected from the elements.	<u>Complete</u>
3	Priority C	As a good management practice for CESQGs obtain an EPA identification number.	<u>Completed by NERT.</u>
4	Priority C	As a good management practice for CESQGs develop and maintain a waste manifest tracking log to manage all of the shipping and receiving manifests for all waste shipments.	<u>Completed by NERT</u>
5		Continue to manage universal waste per the universal waste requirements.	<u>Complete and Ongoing</u>
6	Priority C	Develop a more concise chemical inventory with annual capacities and usages for all applicable chemicals.	<u>In Progress</u> <u>All chemicals are inventoried each month. Usage of each chemical is logged into the HACH Wims Data Management software.</u>
7	Priority C	An applicability study should be completed to determine if the facility is subject to TRI Form R reporting.	<u>Closed</u> After review, ETI does not see the need for this study and is in complete compliance with all reporting currently required.

Notes:

Changes in activity status from the prior month are displayed in the Status column with **bold, underlined font**.

# Figures

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*Operational Metrics*

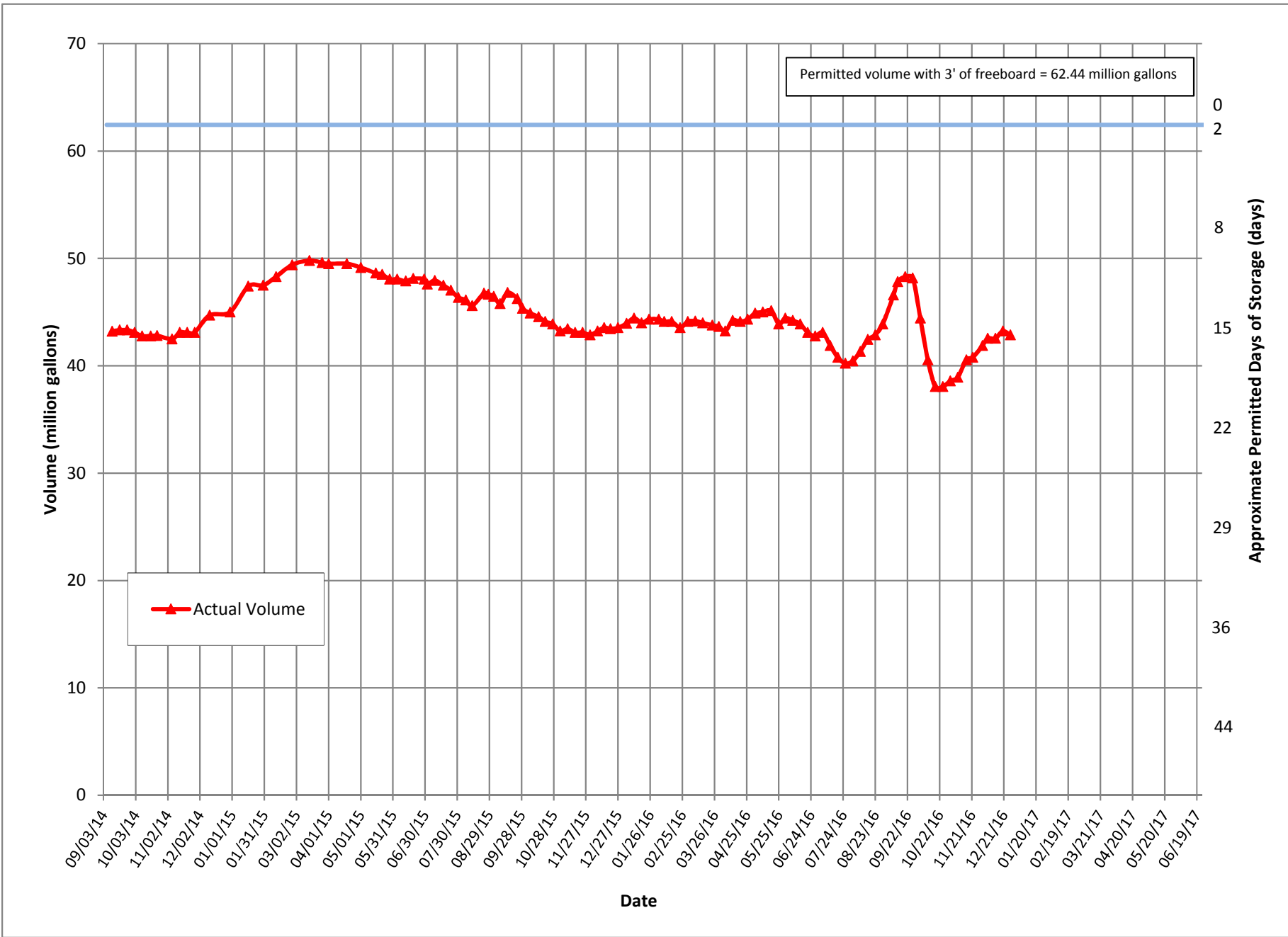
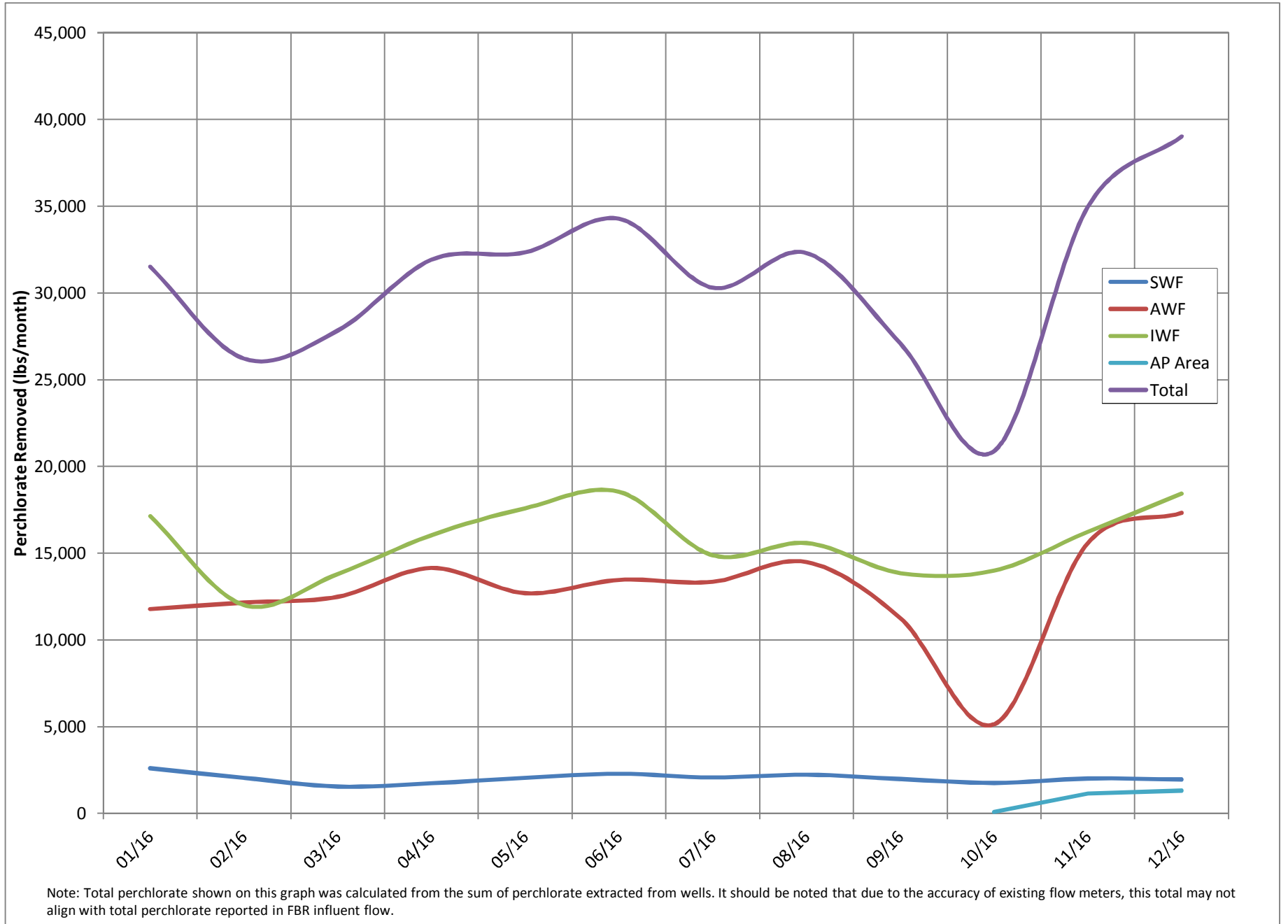


Figure 2 - Historical Perchlorate Mass Flux



# Attachment A

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*NPDES Tracking Sheet (Prepared by ENVIRON)*



Continuous		Daily samples, composited weekly		Weekly samples										Weekly samples, collected separately		Quarterly sample			
Flow Rate		Perchlorate		pH	Hexavalent Chromium	Total Chromium	Total Suspended Solids (TSS)		Total Iron		Total Ammonia as N		Total Phosphorus as P		BOD <sub>5</sub> (inhibited)		Manganese		
30-Day Avg. (MGD)	Daily Maximum (MGD)	30-Day Avg. (ug/L)	30-Day Avg. (lbs/day)	30-Day Avg. (S.U.)	Daily Max. (mg/L)	Daily Max. (mg/L)	30-Day Avg. (mg/L)	30-Day Avg. (lbs/day)	30-Day Avg. (mg/L)	30-Day Avg. (lbs/day)	30-Day Avg. (mg/L)	30-Day Avg. (lbs/day)	30-Day Avg. (mg/L)	30-Day Avg. (lbs/day)	30-Day Avg. (mg/L)	Daily Max. (mg/L)	30-Day Avg. (mg/L)	30-Day Avg. (mg/L)	30-Day Avg. (mg/L)
1.45	1.75	18	0.22	6.5 to 9.0	0.01	0.1	135	1,634	10	121.03	40		20		25	40	254	5	60.52
January 2016	1.28	1.39	1.3	0.013	6.89	0.00013	0.022	24	250	4.5	47	9	0.25		5.8	6.5	61	0.26	2.9
February 2016	1.34	1.41	1.3	0.014	6.96	0.00013	0.015	20	230	3.6	41	6	0.62		3.9	6.0	43		
March 2016	1.37	1.43	1.3	0.014	6.83	0.00013	0.027	21	240	3.1	35	13	1.9		4.3	5.8	49		
April 2016	1.36	1.44	1.3	0.014	6.84	0.00013	0.026	21	240	2.4	27	4.9	1.2		3.9	6.2	44		
May 2016	1.40	1.47	1.3	0.015	6.66	0.00013	0.019	22	260	2.7	32	3	0.8		4.7	6.7	54	0.22	2.5
June 2016	1.30	1.43	1.3	0.014	6.64	0.00013	0.014	11	130	1.6	18	7	1.0		1.7	3.5	19		
July 2016	1.26	1.39	1.3	0.013	6.69	0.00013	0.020	9	90	1.6	16	6	1.2		2.1	4.1	22		
August 2016	1.30	1.43	9	0.09	6.68	0.00013	0.016	12	130	1.5	16	7	0.9		5	13	53	0.22	2.2
September 2016	1.21	1.43	1.3	0.013	6.84	0.00013	0.023	21	200	3.0	30	3.7	0.78		3.8	6.7	37		
October 2016	1.15	1.29	1.3	0.012	6.87	0.00013	0.051	13	130	1.2	12	2.4	2.4		4.7	6.5	45	0.26	2.2
November 2016	1.30	1.38	1.3	0.014	7.00	0.00013	0.029	58	630	5.0	55	4.2	1.1		6.0	8.6	65		
December 2016 (month to date)	1.39	1.43	1.3	0.014	7.00	0.00013	0.018	17	190	3.4	39	4.4	0.63		4.7	7.0	53		

Daily Grab Sample Date	Composite Sample Date	ug/L	lbs/day	Sample Date	S.U.	mg/L	mg/L	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	Sample Date	mg/L	lbs/day	mg/L	lbs/day	
1/3 - 1/9	1/9/2016	ND (<2.5)	1.3	0.013	1/4/2016	6.92	ND (<0.00025)	0.070	18	193	3.9	42	--	0.32	3.4	--	0.028	0.30	1/6/2016	5.7	61
1/10 - 1/16	1/16/2016	ND (<2.5)	1.3	0.013	1/11/2016	7.02	ND (<0.00025)	0.022	25	260	5.0	52	--	1.8	19	ND (<0.025)	0.013	0.13	1/13/2016	6.5	68
1/17 - 1/23	1/23/2016	ND (<2.5)	1.3	0.013	1/19/2016	6.62	ND (<0.00025)	0.016	30	311	5.1	53	--	0.96	9.9	ND (<0.025)	0.013	0.13	1/20/2016	6.0	62
1/24 - 1/30	1/30/2016	ND (<2.5)	1.3	0.014	1/25/2016	7.01	ND (<0.00025)	0.014	23	255	3.8	42	--	0.19	2.1	--	0.040	0.44	1/27/2016	4.8	53
2/1 - 2/6	2/6/2016	ND (<2.5)	1.3	0.014	2/1/2016	6.94	ND (<0.00025)	0.015	35	394	4.5	51	--	0.18	2.0	--	0.059	0.66	2/3/2016	6.0	68
2/7 - 2/13	2/13/2016	ND (<2.5)	1.3	0.014	2/9/2016	7.18	ND (<0.00025)	0.013	16	181	3.8	43	--	0.98	11	--	0.059	0.67	2/10/2016	2.5	28
2/13 - 2/20	2/20/2016	ND (<2.5)	1.3	0.014	2/15/2016	6.82	ND (<0.00025)	0.0092	14	158	2.8	32	--	0.33	3.7	--	0.048	0.54	2/17/2016	3.4	38
2/21 - 2/27	2/27/2016	ND (<2.5)	1.3	0.014	2/22/2016	6.91	ND (<0.00025)	0.013	16	181	3.4	38	--	0.50	5.6	--	0.054	0.61	2/24/2016	3.5	40
2/28 - 3/5	3/5/2016	ND (<2.5)	1.3	0.014	3/1/2016	7.11	ND (<0.00025)	0.0092	12	132	2.9	22	--	1.9	21	--	0.062	0.68	3/2/2016	3.3	36
3/6 - 3/12	3/12/2016	ND (<2.5)	1.3	0.014	3/7/2016	6.91	ND (<0.00025)	0.012	18	202	2.6	29	--	1.4	16	--	0.096	1.1	3/9/2016	2.7	30
3/13 - 3/19	3/19/2016	ND (<2.5)	1.3	0.015	3/14/2016	6.68	ND (<0.00025)	0.026	33	388	4.1	48	--	0.71	8.3	--	0.23	2.7	3/16/2016	5.8	68
3/20 - 3/26	3/26/2016	ND (<2.5)	1.3	0.015	3/21/2016	6.81	ND (<0.00025)	0.023	22	256	4.1	48	--	0.45	5.2	--	0.32	3.7	3/23/2016	5.5	64
3/27 - 4/2	4/2/2016	ND (<2.5)	1.3	0.014	3/28/2016	6.65	ND (<0.00025)	0.027	19	213	2.6	29	--	1.2	13	--	0.12	1.3	3/30/2016	4.1	46
4/3 - 4/9	4/9/2016	ND (<2.5)	1.3	0.014	4/6/2016	6.71	ND (<0.00025)	0.013	14	160	2.6	30	--	0.37	4.2	--	0.080	0.69	4/6/2016	1.4	16
4/10 - 4/16	4/16/2016	ND (<2.5)	1.3	0.014	4/11/2016	6.82	ND (<0.00025)	0.017	23	254	3.5	39	--	0.48	5.3	--	0.11	1.2	4/13/2016	6.0	66
4/17 - 4/23	4/23/2016	ND (<2.5)	1.3	0.014	4/18/2016	6.82	ND (<0.00025)	0.026	25	281	2.8	32	--	0.44	5.0	--	0.17	1.9	4/20/2016	6.2	70
4/24 - 4/30	4/30/2016	ND (<2.5)	1.3	0.015	4/25/2016	7.02	ND (<0.00025)	0.011	21	245	0.70	8.2	--	0.44	5.1	--	0.092	1.1	4/27/2016	2.1	24
5/1 - 5/7	5/7/2016	ND (<2.5)	1.3	0.014	5/2/2016	6.84	ND (<0.00025)	0.019	25	289	2.9	34	ND(<0.10)	0.05	0.58	--	0.089	1.0	5/4/2016	3.9	45
5/8 - 5/14	5/14/2016	ND (<2.5)	1.3	0.014	5/9/2016	6.64	ND (<0.00025)	0.078	22	254	2.6	30	--	0.27	3.1	--	0.075	0.87	5/11/2016	2.5	29
5/15 - 5/21	5/21/2016	ND (<2.5)	1.3	0.014	5/16/2016	6.51	ND (<0.00025)	0.011	20	231	3.2	37	--	0.18	2.1	--	0.085	0.98	5/18/2016	6.7	77
5/22 - 5/28	5/28/2016	ND (<2.5)	1.3	0.015	5/23/2016	6.60	ND (<0.00025)	0.011	29	349	3.4	41	ND(<0.10)	0.05	0.60	--	0.067	0.81	5/25/2016	5.5	66
5/29 - 6/4	6/4/2016	ND (<2.5)	1.3	0.014	5/31/2016	6.72	ND (<0.00025)	0.063	15	172	1.6	18	--	0.94	11	--	0.047	0.54	6/1/2016	1.2	14
6/5 - 6/11	6/11/2016	ND (<2.5)	1.3	0.013	6/6/2016	6.69	ND (<0.00025)	0.030	3.7	39	0.43	4.6	--	0.34	3.6	--	0.027	0.29	6/8/2016	ND(<0.50)	0.25
6/12 - 6/18	6/18/2016	ND (<2.5)	1.3	0.014	6/13/2016	6.68	ND (<0.00025)	0.049	6.9	75	1.3	14	--	0.22	2.4	--	0.046	0.50	6/15/2016	1.8	20
6/19 - 6/25	6/25/2016	ND (<2.5)	1.3	0.013	6/20/2016	6.62	ND (<0.00025)	0.078	10	106	1.0	13	--	0.31	3.3	--	0.12	1.3	6/22/2016	1.7	18
6/26 - 7/2	7/2/2016	ND (<2.5)	1.3	0.014	6/27/2016	6.57	ND (<0.00025)	0.014	25	280	3.5	39	--	1.5	16.8	--	0.17	1.9	6/29/2016	3.5	39
7/3 - 7/9	7/9/2016	ND (<2.5)	1.3	0.014	7/4/2016	6.51	ND (<0.00025)	0.049	2.6	28	1.1	12	--	0.18	1.9	--	0.12	1.3	7/6/2016	1.5	16
7/10 - 7/16	7/16/2016	ND (<2.5)	1.3	0.013	7/11/2016	6.78	ND (<0.00025)	0.035	4.5	47	1.1	12	--	0.32	3.4	--	0.040	0.42	7/13/2016	0.97	10
7/17 - 7/23	7/23/2016	ND (<2.5)	1.3	0.014	7/18/2016	6.75	ND (<0.00025)	0.078	9.0	93	1.4	15	--	1.4	15	--	0.19	2.0	7/20/2016	4.1	43
7/24 - 7/30	7/30/2016	ND (<2.5)	1.3	0.013	7/25/2016	6.72	ND (<0.00025)	0.020	19	196	2.7	28	--	0.30	3.1	--	0.10	1.0	7/27/2016	2.0	21
7/31 - 8/6	8/6/2016	39*	39	0.40	8/1/2016	6.82	ND (<0.00025)	0.069	4.2	43	0.69	7.1	--	0.30	3.1	--	0.053	0.54	8/3/2016	3.2	33
8/7 - 8/13	8/13/2016	ND (<2.5)	1.3	0.014	8/8/2016	6.69	ND (<0.00025)	0.016	21	232	2.4	27	--	0.37	4.1	--	0.070	0.77	8/10/2016	3.6	40
8/14 - 8/20	8/20/2016	ND (<2.5)	1.3	0.014	8/15/2016	6.65	ND (<0.00025)	0.050	5.0	54	0.70	7.6	--	0.38	4.1	--	0.047	0.51	8/17/2016	13	141
8/21 - 8/27	8/27/2016	ND (<2.5)	1.3	0.014	8/22/2016	6.68	ND (<0.00025)	0.064	5.8	65	0.10	1.1	--	0.52	5.8	--	0.061	0.68	8/24/2016	4.0	45
8/28 - 9/3	9/3/2016	ND (<2.5)	1.3	0.012	8/29/2016	6.54	ND (<0.00025)	0.011	25	248	3.7	37	--	1.6	16	--	0.18	1.8	8/31/2016	0.85	8.4
9/4 - 9/10	9/10/2016	ND (<2.5)	1.3	0.012	9/5/2016	6.79	ND (<0.00025)	0.023	26	246	3.2	30	--	0.65	6.2	--	0.080	0.76	9/7/2016	4.4	44
9/11 - 9/17	9/17/2016	ND (<2.5)	1.3	0.013	9/12/2016	6.93	ND (<0.00025)	0.062	17	176	2.9	30	--	0.37	3.8	--	0.073	0.76	9/14/2016	1.4	15
9/18 - 9/24	9/24/2016	ND (<2.5)	1.3	0.015	9/19/2016	6.72	ND (<0.00025)	0.078	18	209	2.7	31	--	0.22	2.6	--					

# Attachment B

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*Equipment Tracking Form*

Sub-System	P&ID	Description	Status <sup>1</sup>	Checked	Criticality <sup>2</sup>	Notes
<b>Main Plant Equipment</b>						
<b>1 Seep Wells and Lift Station 1</b>						
1.01		Seep Well Field, 9 wells	Running		2	The new header was installed for diverting the wells to either the wet well or through the IX system. New control switches were also installed.
1.02		Lift Station 1 Lift Pump A	Running		2	A new VFD was installed on the turbine as well as new discharge piping.
1.03		Lift Station 1 Lift Pump B	Standby		2	A new VFD was installed on the turbine as well as new discharge piping.
1.04		Area in and around Lift Station 1	Running		2	The frack tank was delivered and piped in as well as the IX unit, booster pumps, corresponding piping and electrical as well as proper containment. The new system is not yet online.
<b>2 Athens Road Wells and Lift Station 3</b>						
2.01		Athens Road Well Field, 9 wells	Running		2	New 1 hp and 2 hp motors were installed on ART-2a, 3a, and 4a. The VFD's are more sensitive to faults requiring more frequent changing of the equipment.
2.02		Lift Station 3 Lift Pump A	Standby			
2.03		Lift Station 3 Lift Pump B	Running			
2.04		Area in and around Lift Station 3	Running			
<b>3 Lift Station 2 and Transmission Pipelines</b>						
3.01		Influent Pipeline	In operation			
3.02		Effluent Pipeline	Running		1	A worn 3" Spears valve needed to be replaced on the eff. Line. This required a temporary diversion to the pond to replace the valve.
3.03		Lift Station 2 Lift Pump A	Running			
3.04		Lift Station 2 Lift Pump B	Standby			
3.05		Area in and around Lift Station 2	Running			
<b>4 Interceptor Wells and Cr Treatment Plant</b>						
4.01		IWF Well Field, 30 wells	Running		2	A new 1/2 hp Franklin motor was installed on I-Q as well as new electrical connections and conduit which was worn by the weather.
4.02		Ferrous Sulfate Feed System	Running			
4.03		Polymer Feed System	Running			
4.04		Clarifier	In operation			
4.05		Filter Press	Running			
4.06		GWTP Effluent Tank	In operation			
4.07		Interceptor Booster Pump A	Running			
4.08		Interceptor Booster Pump B	Standby			
4.09		Area In And Around GWTP	Running			

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Sub-System	P&ID	Description	Status <sup>1</sup>	Checked	Criticality <sup>2</sup>	Notes
<b>5</b>		<b>Equalization Area and GW-11 Pond</b>				
5.01	PID10A	Pond GW-11	In operation			
5.02	PID10A	Pond Water Pump - P101A	Running			
5.03	PID10A	Pond Water Pump - P101B	Standby			
5.04	PID10A	Equalization Tanks	In operation			
5.05	PID10A	Area in and Around EQ	In operation		3	Troubleshooting the intermittent communication loss between the EQ area and the PLC.
5.06	PID10A	Raw Water Feed Pump - P102A	Standby			
5.07	PID10A	Raw Water Feed Pump - P102B	Running			
5.08	PID10A	F-101 Filters	Running		3	New parts have been received.
5.09	PID10B	Carbon Absorber - LGAC 201A	Running			
5.10	PID10B	Carbon Absorber - LGAC 201B	Running			
5.11	PID10B	Carbon Absorber - LGAC 201C	Running			The rupture disc was replaced on the GAC when signs of wear was detected.
<b>6</b>		<b>First Stage FBRs A, 1 &amp; 2</b>				
6.01	PID14	FBR A			2	The FBR was taken offline to inspect and locate any possible discrepancies on the vessel.
6.02	PID14	Separator Tank - 1401				
6.03	PID14	Media Return Pump - P 1401				
6.04	PID14	P1401A				
6.05	PID01A	P1401B				
6.06	PID01A	FBR 1	Running			
6.07	PID02A	FBR 2	Running			
6.08	PID01A	First Stage Separator Tank - T2011	Running			
6.09	PID01A	Media Return Pump - P2011	Running			
6.10	PID01A	First Stage FBR Pump - P1011	Standby			
6.11	PID01A	First Stage FBR Pump - P1012	Running			
6.12	PID01A	First Stage FRB Pump - P101A	Running			
6.13	PID07A	FBR A pH Feed Pump - P71A	Off			
6.14	PID07A	FBR 1 pH Feed Pump - P711	Off			
6.15	PID07A	FBR 2 pH Feed Pump - P712	Off			
6.16	PID07A	FBR A Nutrient (Urea) Feed Pump - P72A	Off			
6.17	PID07A	FBR 1 Nutrient (Urea) Feed Pump - P721	Off			
6.18	PID07A	FBR 2 Nutrient (Urea) Feed Pump - P722	Off			
6.19	PID15	FBR A Nutrient (Phos Acid) Feed Pump - P1520A	Running			
6.20	PID15	FBR 1 Nutrient (Phos Acid) Feed Pump - P1521	Running			
6.21	PID15	FBR 2 Nutrient (Phos Acid) Feed Pump - P1522	Running			

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Sub-System	P&ID	Description	Status <sup>1</sup>	Checked	Criticality <sup>2</sup>	Notes
6.22	PID07B	FBR A Electron Donor Assembly Pump - P73A	Running			
6.23	PID07B	FBR 1 Electron Donor Assembly Pump - P731	Running			
6.24	PID07B	FBR 2 Electron Donor Assembly Pump - P732	Running			
<b>7</b>		<b>First Stage FBRs 3 &amp; 4</b>				
7.01	PID01B	FBR 3	Running			
7.02	PID01B	FBR 4	Running			
7.03	PID02B	First Stage Separator Tank - T2012	Running			
7.04	PID01B	Media Return Pump - P2012	Running			
7.05	PID01B	First Stage FBR Pump - P1013	Running			
7.06	PID01B	First Stage FRB Pump - P1014	Running			
7.07	PID01B	First Stage FBR Pump - P102A	Running			
7.08	PID07A	FBR 3 pH Feed Pump - P713	Running			
7.09	PID07A	FBR 4 pH Feed Pump - P714	Running			
7.10	PID07A	FBR 3 Nutrient (Urea) Feed Pump - P723				
7.11	PID07A	FBR 4 Nutrient (Urea) Feed Pump - P 724	Off			
7.12	PID15	FBR 3 Nutrient (Phos Acid) Feed Pump - P1523	Running			
7.13	PID15	FBR 4 Nutrient (Phos Acid) Feed Pump - P1524	Running			
7.14	PID07B	FBR 3 Electron Donor Assembly Pump - P733	Running			
7.15	PID07B	FBR 4 Electron Donor Assembly Pump - P734	Running			
<b>8</b>		<b>Second Stage FBRs 5 &amp; 6</b>				
8.01	PID03A	FBR 5	Running			
8.02	PID03A	FBR 6	Running			
8.03	PID03C	Second Stage Separator Tank - T3011	Running			
8.04	PID03A	Media Return Pump - P3011	Running			
8.05	PID03A	Second Stage FBR Pump - P3015	Running			
8.06	PID03A	Second Stage FBR Pump - P3016	Standby			
8.07	PID03A	Second Stage FBR Pump - P301A	Running			
8.08	PID07A	FBR 5 pH Feed Pump - P715	Off			
8.09	PID07A	FBR 6 pH Feed Pump - P716	Off			
8.1	PID07A	FBR 5 Nutrient (Urea) Feed Pump - P725	Off			
8.11	PID07A	FBR 6 Nutrient (Urea) Feed Pump - P726	Off			
8.12	PID07B	FBR 5 Electron Donor Assembly Pump - P735	Running			
8.13	PID07B	FBR 6 Electron Donor Assembly Pump - P736	Running			
<b>9</b>		<b>Second Stage FBRs 7 &amp; 8</b>				
9.01	PID03B	FBR 7	Running			
9.02	PID03B	FBR 8	Running			
9.03	PID03D	Second Stage Separator Tank - T3012	Running			

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Sub-System	P&ID	Description	Status <sup>1</sup>	Checked	Criticality <sup>2</sup>	Notes
9.04	PID03B	Media Return Pump - P3012	Running			
9.05	PID03B	Second Stage FBR Pump - P3017	Running			
9.06	PID03B	Second Stage FBR Pump - P3018	Running			
9.07	PID03B	Second Stage FBR Pump - P302A	Running			
9.08	PID07A	FBR 7 pH Feed Pump - P717	Off			
9.09	PID07A	FBR 8 pH Feed Pump - P718	Off			
9.10	PID07A	FBR 7 Nutrient (Urea) Feed Pump - P727	Off			
9.11	PID07A	FBR 8 Nutrient (Urea) Feed Pump - P728	Off			
9.12	PID07B	FBR 7 Electron Donor Assembly Pump - P737	Running			
9.13	PID07B	FBR 8 Electron Donor Assembly Pump - P738	Running			
<b>10</b>		<b>Aeration and DAF System</b>				
10.01	PID04	Aeration Tank	In operation			
10.02	PID04	Aeration Blower - B401	Running		4	A new belt was installed on the blower.
10.03	PID04	Biofilter	In operation			
10.04	PID04	Nutrient Solution	Running			
10.05	PID04	Biofilter Sump	Running			
10.06	PID04	Nutrient Pump - P401	Running			
10.07	PID04	Biofilter Sump Pump - P402A	Standby			
10.09	PID04	Biofilter Blower	Running			
10.10	PID05	DAF Pressure Tanks	In operation			
10.11	PID05	DAF Vessel - D501	Running			
10.12	PID05	DAF Pressure Pump - P501	Running			
10.13	PID05	DAF Float Pump - P502	Running		3	The pump was removed and replaced with the shelf spare.
10.14	PID05	DAF Vessel - D551	Running			
10.15	PID05	DAF Pressure Pump - P551	Running			
10.16	PID05	DAF Float Pump - P552	Running			
10.17	PID05	Screw Conveyer Drive	Standby			
10.18	PID05	Skimmer Drive	Running			
<b>11</b>		<b>Pumping System (Old Effluent)</b>				
11.01	PID06	Effluent Tank 601	In operation			
11.02	PID06	Effluent Pump - P601	Running			
11.03	PID06	Effluent Pump - P602	Standby			
<b>12</b>		<b>Sand Filter System</b>				
12.01	PID17	Sand Filter			3	The sandfilter was taken offline due to the coupling boot failing.
12.02	PID17	Filter Reject Tank	In operation			
12.03	PID17	Filter Reject Pump - P1701A	Standby			
12.04	PID17	Filter Reject Pump - P1701B	Running			

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<b>13</b>		<b>Effluent Tank and Pumping</b>				
13.01	PID10C	UV Effluent Tank	Running			
13.02	PID10C	Effluent Booster Pump - P1302A	Running			
13.03	PID10C	Effluent Booster Pump - P1302B	Standby			
13.04	PID10C	Area Around Effluent and North D-1	Running			
<b>14</b>		<b>Solids Collection and Pressing System</b>				
14.01	PID16	Sludge Storage Tank	In operation			
14.02	PID16	Solids Storage Effluent Pump - P1601	Running			
14.03	PID16	Solids Cond. Tank	In operation			
14.04	PID09	Sludge Mixer	Running			
14.05	PID09	Filter Press Pump - P901	Running			
14.06	PID09	Filter Press Pump - P902	Running			
14.07	PID09	West Press	Standby			
14.08	PID09	East Press	Running			
14.09	PID09	Filtrate Tank	In operation			
14.10	PID09	Filtrate Tank Effluent (recycle) Pump - P903	Running			
		<b>Chemical Systems</b>				
<b>15</b>		<b>Electron Donor System</b>				
15.01	PID07B	Electron Donor Tank	In operation			
15.02	PID07B	Booster Pump P739A	Running			
15.03	PID07B	Booster Pump P739B	Standby			
<b>17</b>	PID07C	Micro Nutrient System	In operation			
<b>18</b>	PID07C	Hydrogen Peroxide System	In operation			
<b>19</b>	PID07C	De-Foam System	In operation			
<b>20</b>	PID15	Nutrient (Phosphoric Acid) System (Tank only - pumps included in FBRs)	In operation			
<b>21</b>	PID07A	Nutrient (Urea) System (Tank only - pumps included in FBRs)	In operation			
<b>22</b>	PID07A	pH System (Tank and effluent pH feed pump only - other pumps included in FBRs)	In operation			
<b>23</b>	PID07C	Ferric Chloride System	In operation			
<b>24</b>	PID07B	Polymer Systems - DAF	In operation			
<b>25</b>	PID09	Polymer System - Solids Dewatering (2 tanks, 2 centrifugal pumps, mixer, volumetric feeder)	In operation			

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Sub-System	P&ID	Description	Status <sup>1</sup>	Checked	Criticality <sup>2</sup>	Notes
<b>Utility Systems</b>						
<b>26</b>		<b>Compressed Air System</b>				
26.01	PID08	West Compressor	Running			
26.02	PID08	East Compressor	Running		3	Oil was added to the compressor until service is performed by IR.
26.03	PID08	O2 Compressor	Running			
26.04	PID08	Compressed Air Receiver Tank	In operation			
26.05	PID08	Air Dryer	Running			
26.06	PID08	Oil Removal Filter	In operation			
26.07	PID08	Particulate Filter	In operation			
<b>27</b>	PID16	Oxygen System	In operation			
<b>28</b>		GWETS Plant Controls/ Siemens Controls	In operation			
<b>29</b>		Well Control System/ Allen Bradley Controls	In operation			
<b>30</b>		MCC FBR Pad	In operation			
<b>31</b>		MCC in D-1	In operation			
<b>32</b>		MCC in EQ area	In operation			
<b>Miscellaneous Systems</b>						
<b>33</b>		Operations Office/Network	In operation			
<b>34</b>		Laboratory Analyzers	In operation			
<b>35</b>		Security Systems	In operation			
<b>Shelf Spares</b>						
		Media Return Pump Rebuild Kit	In stock			
		pH Feed Pump	In stock			
		Nutrient Feed Pump	In stock			
		Electron Donor Feed Pump	In stock			
		Phosphoric Acid Feed Pump	In stock			
		Interceptor Well Pumps (4 each)	In stock			5 new motors were ordered.
		Seep Well Pump (1 each, same as Athens so total of 2)	In stock			
		Athens Road Well Pump (1 each, same as Seep so total of 2)	In stock			2 of each were ordered to have as spares

Status Codes

Running - Unit is in operation  
 Standby - Spare or duplicate, not currently in operation  
 Maintenance - Out of service for maintenance  
 Off - Not currently needed for use, but can be placed in service

Criticality Codes

1= Critical - Cannot continue with operation until repairs made  
 2= Important - Can still operate safely and in compliance with permits, but risks are increased  
 3= Moderate - Work needs to be performed, but plant can still operate with redundancy that is in place  
 4= Low - Minor repairs that in no way alter the performance of the plant