



| To: | Nevada Division of Environmental Protection Nevada Environmental Response Trust |
|----------|--|
| Cc: | Nevada Environmental Response Trust Stakeholders |
| From: | Frank Johns/Tt |
| Date: | November 5, 2014 |
| Subject: | NERT – GWETS Operation Monthly Report – September 2014 |

Tetra Tech is providing this monthly report to provide a summary of GWETS operation during September 2014 and oversight tasks performed by Tetra Tech.

Summary of GWETS Operation

The groundwater extraction and treatment system (GWETS) operated normally in September, with the exception of GW-11. GW-11 is still being bypassed due to high suspended solids content, primarily insects and some algae, causing frequent plugging of the bag filters and increased the backwash frequency for the GAC. Envirogen Technologies, Inc. (ETI) has ordered automatic cleaning filters to replace the bag filters. The new filters are expected to be online with the pond taken out of bypass by early December.

Additionally, there was a brief period of effluent diversion to GW-11 on September 15. Due to a leak in the effluent line, ETI stopped discharging treated water down the effluent pipe and directed the effluent to GW-11. During the period of diversion, approximately 200,000 gallons of effluent was diverted to GW-11. There was no measurable increase in the pond level during this time. This incident was reported to the NDEP Spill Notification Line and the effluent pipe was repaired and returned to operation within 6 hours.

The flow rate to the plant averaged approximately 915 gpm during the month. At the end of the month, the GW-11 volume was 43.3 MG, equal to 13.3 days of available storage in event of an emergency. The volume increased approximately 2 MG from the end of August, due to the large rainfall events in September. The influent perchlorate concentration from the equalization tank to the FBR plant averaged 120 mg/L for the month, with a maximum concentration of 130 mg/L.

There were zero exceedances at the GWETS Outfall for perchlorate or any other constituent in excess of the NPDES permitted numerical discharge limits (Attachment A, prepared by ENVIRON).

Operational Metrics

See attached Tables 1 through 5 for the GWETS operational metrics that are being or will be tracked for the GWETS. The metrics that do not require modification for the system to collect are being reported beginning with this September GWETS operation monthly report. Tetra Tech has received budgetary approval from the Trust and is implementing a program to track over 80 key GWETS operational metrics. Expected to come online in March 2015, this program will add instruments, controls, data acquisition systems, along with various other technical upgrades to improve the efficiency of data collection and reporting to the Trust.

The attached tables provide the available metrics and are presented as follows.

- Table 1 Seep Well Field (SWF) Operational Metrics
- Table 2 Athens Road Well Field (AWF) Operational Metrics
- Table 3 Interceptor Well Field (IWF) Operational Metrics
- Table 4 Treatment Plant Operational Metrics
- Table 5 GW-11 Operational Metrics (see also Figure 1)
- Table 6 Equivalent Load Estimates (see also Figure 2)

Operational Issues

In addition to plant repairs conducted by ETI in accordance with their 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 continues to be bypassed due to the issue with insects and algae causing plugging of the bag filters ahead of the GAC units. ETI has ordered automatic cleaning filters to replace the bag filters and are scheduled for installation in late November.
- 2. A valve box that contains a combination air and vacuum valve on the effluent line near the crossing of Galleria Drive was struck and damaged. On September 15, 2014, ETI received a call from the City of Henderson to notify them that the effluent pipe appeared to be broken. ETI immediately stopped discharging treated water down the effluent pipe and directed the effluent to GW-11. ETI called their on-call pipeline contractor to evaluate the situation and complete the required repair. The repair was completed and ETI began discharging back to the Las Vegas Wash that afternoon. During the period of diversion, approximately 200,000 gallons of effluent was diverted to GW-11. There was no measurable increase in the pond level. The incident was reported to the NDEP Spill Notification Line.
- 3. Major maintenance being performed or completed in the month included:
 - Swing check valves replaced on the pumps at Lift Station #1.
 - Ferrous sulfate feed at GWTP Replaced broken injection quill with check valve.
 - Filter press at GWTP Replaced O-rings on plates.
 - Raw water feed pump Pump P102B removed for maintenance in shop.
 - Replaced valves and expansion joints at the GAC process.
 - Continued rehabilitating FBR 5.
 - Media return pump for FBRs 7 and 8 taken out of service for belt replacement.
 - Repaired motor contacts on the DAF recycle pump.
 - DAF pressure pump Replaced check flap and suction disk on pump.
 - DAF float pump Replaced discharge disk and trunnions.
 - Effluent pump Mechanical seal being rebuilt.
 - Filter reject pump Replaced impellers and returned to service.
 - Filter press pump Rebuilt one pump. Replacement kit ordered for second pump.
 - Phosphoric acid nutrient feed system Leaking lines caused wiring to short out. Fed phosphoric acid directly from tote using peristaltic pump during repairs.

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- DAF polymer feed system Replaced check valve at injection point.
- East compressor Repairs made by manufacturer.
- Performed maintenance on the motor control center at the main power feed. This
 maintenance required the power to the treatment plant to be shut down. During this time
 the wells continued to operate with the flow diverted to GW-11. Diversion to GW-11
 occurred from the morning of September 10 through the afternoon of September 11.
- Computer in MCC on the FBR pad is not in service. This is a redundant monitoring location and not required for operation since monitoring is performed at main control room.
- Panel view for Siemens system sent in for repair and reinstalled.
- Level controllers at the equalization tanks were dropping out.
- Phone line for the plant had fallen off a pole and was laying on a power feed for Tronox.
 Century Link was called and repaired the line.
- Allen-Bradley computer for extraction wells and GWTP was down for a time with no visual indication of operation in control room. All wells and GWTP continued to operate with notification by auto-dialer.
- Ion chromatograph was damaged by power surge from lightning strike. Unit has been replaced.

GWETS Upgrades and Facility Projects

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

1. 2013 Optimization

Construction for PC-150 and ART-7B will be completed in early October. Another round of flow optimization for the IWF will be initiated once these AWF wells are operational. Capture zone analyses for the IWF and AWF will be performed in November with a final report expected in January 2015.

2. AP-5 Closure

Tetra Tech has continued development of a work plan for closure of the pond. In early September, a hold was placed on the work plan project. The hold was released in early October and a draft work plan is scheduled to be submitted to the Trust by late October. Tetra Tech continues to coordinate with NDEP, ETI, and the Trust on this project. This will be a long-term project that will directly impact GWETS operations across multiple levels once implemented.

3. Enhanced Operational Metrics

Tetra Tech started design for the enhanced operational metrics project in September. A preliminary design meeting will be held with ETI in late October.

Equipment Availability Tracking

ETI operators continue to update the equipment tracking form on a weekly basis at a minimum, or whenever there is a change in the status of key equipment. During regular site visits, Tetra Tech field personnel continue to verify the entries in the form, including both the operating status and the presence of the required shelf spares. The equipment tracking form submitted to Tetra Tech on October 2, 2014, is attached (Attachment B).

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GWETS Security

ETI continues to staff the GWETS using a single shift and follows the security procedure in the SOP dated April 30, 2014. During weekly calls, ETI notifies Tetra Tech of any issues with GWETS security. There were no issues reported in September.

Tetra Tech Activities

Tetra Tech conducted weekly calls with ETI to review operation of the GWETS on September 4, 11, 18, and 25, and October 2. Becki Dano, CEM, of Tetra Tech, performed visits to the GWETS on September 4, 12, 18, and 25. She checked permit and sampling forms to ensure each was correct and up-to-date, checked equipment status, and viewed shelf spare inventory.

Summary

Upon review of available and relevant information, Tetra Tech concurs with the management of the GWETS at this time. No additional involvement from either the Trust or Tetra Tech is recommended at this time.

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Tables Operational Metrics

| | | | | | Nevada Env | vironmental Re | sponse Trust | : I Groundwa | er Extraction | and Treatmer | nt System I I | nhanced Oper | rational Metri | cs | | | | | |
|-------------------------|-----------------|-----------------|------------|-----------------|--------------|-----------------|--------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|-----------------|------------|-----------------|------------|-----------------|---------------|
| | LS #1 | East Well | (PC-116R) | Center Well (F | PC99R2/99R3) | West Well | (PC-115R) | PC | 117 | PC | 118 | PC | 119 | PC | 120 | PC | 121 | PC | 133 |
| Date | Flow | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level |
| | (gpm) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) |
| 09/01/14 | 618 | 136 | | 58 | | 103 | | 90 | | 75 | | 66 | | 1 | | 0 | | 4 | |
| 09/02/14 | 613 | 136 | | 59 | | 102 | | 91 | | 75 | | 65 | | 1 | | 0 | | 4 | |
| 09/03/14 | 587 | 136 | | 59 | | 101 | | 91 | | 72 | | 67 | | 2 | | 0 | | 4 | |
| 09/04/14 | 595 | 136 | | 59 | | 101 | | 92 | | 74 | | 65 | | 1 | | 0 | | 4 | |
| 09/05/14 | 615 | 134 | | 58 | | 101 | | 87 | | 73 | | 65 | | 1 | | 0 | | 4 | |
| 09/06/14 | 601 | 134 | | 58 | | 100 | | 92 | | 71 | | 66 | | 3 | | 0 | | 4 | |
| 09/07/14 | 585 | 135 | " | 60 | " | 103 | " | 90 | " | 72 | " | 66 | " | 1 | Ø | 0 | Ø | 4 | " |
| 09/08/14 | 608 | 135 | Ĕ | 59 | ũ | 100 | Ĕ | 93 | Ĕ | 73 | Ĕ | 67 | ű | 1 | Ĕ | 0 | | 4 | ü |
| 09/09/14 | 600 | 136 | Operations | 59 | Operations | 102 | Operations | 93 | Operations | 71 | Operations | 67 | perations | 1 | Operation | 0 | eration | 4 | Operations |
| 09/10/14 | 588 | 134 | 20 | 57 | 0 | 103 | 10 | 90 | <u>0</u> | 73 | 0 | 69 | <u>0</u> | 2 | 5 | 0 | 0 | 4 | 5.0 |
| 09/11/14 | 611 | 135 | 8 | 58 | 9 | 101 | 8 | 89 | 8 | 73 | 8 | 67 | 8 | 3 | 8 | 0 | Δ. | 4 | ed |
| 09/12/14 | 612 | 137 | | 59 | | 102 | | 89 | | 74 | | 65 | Ō | 2 | | 0 | 0 | 4 | 0 |
| 09/13/14 | 587 | 135 | 8 | 59 | 8 | 102 | Б | 93 | þ | 74 | 8 | 66 | 8 | 1 | þ | 0 | Б | 4 | þe |
| 09/14/14 | 587 | 136 | ٥ | 58 | ٥ | 100 | nhanced | 91 | nhanced | 74 | nhanced | 66 | nhanced | 1 | nhanced | 0 | nhanced | 4 | ٥ |
| 09/15/14 | 588 | 136 | la E | 59 | ıд | 102 | ਬੂ | 91 | Б | 73 | ٦ | 67 | Б | 3 | ਬੁ | 0 | Б | 4 | ıaı |
| 09/16/14 | 587 | 134 | Enhanced | 58 | Enhanced | 102 | Ē | 91 | È | 73 | Ē | 65 | Ė | 2 | Ē | 0 | | 4 | Enhanced |
| 09/17/14 | 586 | 136 | ų. | 60 | Щ | 100 | щ | 93 | щ | 74 | щ | 66 | щ | 0 | щ | 0 | щ | 4 | Щ. |
| 09/18/14 | 622 | 135 | Ö | 59 | ن | 101 | ပ် | 92 | ပ် | 76 | | 68 | ပ် | 2 | | 0 | ပ် | 4 | |
| 09/19/14 | 590 | 134 | 눑 | 58 | Ę. | 103 | Ħ | 91 | F | 75 | | 65 | | 1 | Ţ. | 0 | etric | 4 | it. |
| 09/20/14 | 589 | 137 | Metric | 59 | Metric | 101 | Metric | 90 | Metric | 73 | Metric | 66 | Metric | 2 | Metric | 0 | ₩ | 4 | Me |
| 09/21/14 | 590 | 138 | Φ | 57 | Φ | 101 | Φ | 88 | Φ | 74 | Φ | 67 | Φ | 2 | Φ | 0 | a) | 4 | Φ |
| 09/22/14 | 609 | 135 | Ē | 60 | Ē | 100 | Ē | 88 | uture | 74 | È | 66 | Ē | 2 | Ē | 0 | Ē | 4 | Ē |
| 09/23/14 | 609 | 133 | Future | 58 | Future | 100 | Future | 90 | Ē | 74 | Future | 64 | Future | 0 | Future | 0 | Future | 4 | Future Metric |
| 09/24/14 | 602 | 137 | | 59 | | 102 | <u></u> | 90 | - | 74 | | 65 | - | 0 | | 0 | - | 4 | <u> </u> |
| 09/25/14 | 615 | 136 | | 59 | | 102 | | 90 | | 74 | | 66 | | 1 | | 0 | | 4 | |
| 09/26/14 | 587 | 136 | | 58 | | 100 | | 91 | | 74 | | 66 | | 1 | | 0 | | 4 | |
| 09/27/14 | 594 | 137 | | 57 | | 103 | | 91 | | 72 | | 67 | | 1 | | 0 | | 4 | |
| 09/28/14 | 622 | 133 | | 58 | | 102 | | 92 | | 73 | | 67 | | 2 | | 0 | | 4 | |
| 09/29/14 | 586 | 134 | | 57 | | 101 | | 90 | | 74 | | 64 | | 1 | | 0 | | 4 | |
| 09/30/14 | NA ¹ | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | |
| Monthly Average | 599 | 135 | | 58 | | 101 | | 91 | | 73 | | 66 | | 1 | | 0 | | 4 | · |
| Analytical ² | | 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 | | 18 | 09/03/0214 | 20 | 09/03/0214 | 11 | 09/03/0214 | 11 | 09/03/0214 | 2 | 09/03/0214 | 0.38 | 09/03/0214 | 0.17 | 09/03/0214 | 0.31 | 09/03/0214 | 6 | 09/03/0214 |

^{1:} Computer outage; flow and hours between readings adjusted while totalizer readings manually collected mid-day Oct 1
2: Analytical results are reported from TestAmerica
Flow reported as gpm is a daily average calculated from the totalizer reading

| | | | N | evada Environ | mental Resp | onse Trust I | Groundwater | Extraction an | d Treatment | System I Enha | nced Operation | onal Metrics | | | | |
|-------------------------|-----------------|-----------------|------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|----------------|--------------|-----------------|------------|-----------------|---------------|
| | LS #3 | AR | | AR' | | AR | | AR' | | ART 6 / ART 9 | ART 6 | ART 9 | AR' | | AR | _ |
| Date | Flow | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Level | Flow | Level | Flow | Level |
| | (gpm) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (ft) | (gpm) | (ft) | (gpm) | (ft) |
| 09/01/14 | 288 | 25 | | 59 | | 23 | | 15 | | 50 | | | 31 | | 64 | |
| 09/02/14 | 289 | 25 | | 60 | | 26 | | 16 | | 50 | | | 31 | | 64 | |
| 09/03/14 | 289 | 25 | | 59 | | 24 | | 14 | | 50 | | | 31 | | 64 | |
| 09/04/14 | 290 | 25 | | 59 | | 24 | | 15 | | 50 | | | 31 | | 64 | |
| 09/05/14 | 289 | 25 | | 59 | | 26 | | 16 | | 49 | | | 31 | | 64 | |
| 09/06/14 | 289 | 25 | | 58 | | 25 | | 15 | | 50 | | | 31 | | 64 | |
| 09/07/14 | 289 | 25 | (O | 59 | m | 24 | m | 15 | w | 50 | m | (n | 31 | m | 64 | m |
| 09/08/14 | NA ² | 25 | Ë | 59 | ä | 25 | ä | 16 | ä | 49 | ä | Ü | 31 | ü | 64 | ü |
| 09/09/14 | 287 | 25 | ΞĖ | 60 | Œ | 25 | Œ | 15 | Ħ. | 50 | Ħ. | erations | 32 | Œ | 65 | aţi |
| 09/10/14 | 288 | 25 | perations | 60 | Operations | 23 | Operations | 16 | Operations | 49 | Operations | era | 32 | Operations | 64 | Operations |
| 09/11/14 | 288 289 | 25 25 | o | 61 60 | ರ | 23 25 | ರ | 16 15 | ರ | 50 49 | <u>&</u> | ď | 32 32 | ರ | 64 64 | d d |
| 09/12/14 | 289 | 25 | | 60 | | 25 | | 16 | | 49 | | | 31 | | 64 | |
| 09/13/14 09/14/14 | 289 | 25 | ĕ | 61 | ĕ | 23 | ĕ | 16 | ĕ | 49 | ĕ | ĕ | 31 | ĕ | 64 | ĕ |
| 09/14/14 | 290 | 25 | Ř | 61 | Ж | 23 | Ж | 16 | яй | 49 | Ĕ | J J | 31 | Ж | 63 | яй |
| 09/16/14 | 289 | 25 | Enhanced | 60 | Enhanced | 26 | Enhanced | 17 | Enhanced | 50 | Enhanced | Enhanced | 31 | Enhanced | 64 | Enhanced |
| 09/17/14 | 291 | 25 | ம் | 61 | 竝 | 25 | | 17 | | 49 | 竝 | 山山 | 31 | | 64 | |
| 09/18/14 | 288 | 25 | | 61 | | 24 | | 16 | | 49 | | | 31 | | 64 | |
| 09/19/14 | 290 | 25 | Ξ̈́ | 61 | Ę | 25 | Ę | 15 | Ë | 49 | Ξ | Į į | 31 | Ę | 64 | ţį |
| 09/20/14 | 323 | 25 | Metric | 61 | Metric | 23 | Metric | 16 | Metric | 50 | Metric | Metric | 32 | Metric | 64 | Ле |
| 09/21/14 | NA ² | 25 | 0 | 61 | 0 | 26 | 0 | 16 | 0 | 50 | 0 | 0 | 31 | 0) | 63 | Future Metric |
| 09/22/14 | 291 | 25 | Future | 61 | Future | 25 | Future | 15 | Future | 49 | Future | Future | 31 | Future | 64 | Š |
| 09/23/14 | 291 | 25 | <u>;</u> 5 | 60 | <u>;</u> 5 | 26 | <u>;</u> 5 | 15 | . <u>;</u> | 49 | <u>;</u> 5 | Į į | 31 | <u>;</u> 5 | 64 | <u>.</u> 5 |
| 09/24/14 | 292 | 25 | ш. | 61 | ш | 24 | ш | 17 | ш | 49 | ш. | ш. | 32 | ш | 64 | ш. |
| 09/25/14 | 291 | 25 | | 61 | | 23 | | 15 | | 50 | | | 31 | | 64 | |
| 09/26/14 | 293 | 25 | | 60 | | 24 | | 15 | | 50 | | | 31 | | 64 | |
| 09/27/14 | 293 | 25 | | 60 | | 25 | | 15 | | 50 | | | 31 | | 63 | |
| 09/28/14 | 292 | 25 | | 60 | | 26 | | 15 | | 50 | | | 31 | | 64 | |
| 09/29/14 | 293 | 25 | | 61 | | 25 | | 17 | | 50 | | | 32 | | 64 | |
| 09/30/14 | NA^1 | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | NA ¹ | | | NA ¹ | | NA ¹ | |
| Monthly Average | 291 | 25 | | 60 | | 25 | | 16 | | 50 | | | 31 | | 64 | |
| Analytical ³ | | 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 | | 17 | 9/3/2014 | 47 | 9/3/2014 | 230 | 9/3/2014 | 309 | 9/3/2014 | 51 | 240 | 9/3/2014 | 130 | 9/3/2014 | 159 | 9/3/2014 |
| Total Chromium⁴ | | 0.018 | 8/4/2014 | 0.056 | 8/4/2014 | 0.42 | 8/4/2014 | 0.59 | 8/4/2014 | 0.27 | 0.98 | 8/4/2014 | 0.68 | 8/4/2014 | 0.19 | 8/4/2014 |

^{1:} Computer outage; flow and hours between readings adjusted while totalizer readings manually collected mid-day Oct 1

^{2:} Moisture from storm caused problems with the flow meter

^{3:} Analytical results are reported from TestAmerica

^{4:} Quarterly results, most recent sampling concentration listed (Samples will be transitioned to monthly reporting in the future)

| Flow Level (gpm) (ft) 4.44 4.32 4.31 | E Level (ft) | Flow (gpm) | D Level (ft) | Flow | ·C | ļ- | ·R | | ΔD | | VC. | 1-4 | AB. | 1-4 | ΔΔ | L | Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics I-AR | | | | | | | | | | | | |
|--|--------------------|--|--------------------|--|-----------|--|-----------|--|---------------|---|-----------------|------------------|------------------------|------------------|------------|--|---|---|--|--|--|--|--|--|--|--|--|--|--|
| (gpm) (ft) 4.44 4.32 | | (gpm) | | Flow | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.44 4.32 | (ft) | | (ft) | | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Date | | | | | | | | | | |
| 4.32 | | 1.36 | | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | | | | | | | | | | | |
| | | | | 1.94 | | 5.94 | | 1.22 | | 0 | | 0 | | 0 | | 1.38 | | 0.83 | 09/01/14 | | | | | | | | | | |
| 4.31 | | 1.34 | | 1.91 | | 5.92 | | 1.21 | | 0 | | 0 | | 0 | | 1.37 | | 0.83 | 09/02/14 | | | | | | | | | | |
| | | 1.35 | | 1.93 | | 5.98 | | 1.16 | | 0 | | 0 | | 0.01 | | 1.37 | | 0.82 | 09/03/14 | | | | | | | | | | |
| 4.23 | | 1.35 | | 1.93 | | 5.95 | | 1.18 | | 0 | | 0 | | 0 | | 1.37 | | 0.83 | 09/04/14 | | | | | | | | | | |
| 4.22 | | 1.33 | | 1.93 | | 5.91 | | 1.22 | | 0 | | 0 | | 0 | | 1.36 | | 0.82 | 09/05/14 | | | | | | | | | | |
| 4.19 | | 1.33 | | 1.91 | | 5.85 | | 1.21 | | 0 | | 0 | | 0 | | 1.35 | | 0.81 | 09/06/14 | | | | | | | | | | |
| 4.26 w | S | 1.34 | S | 1.95 | S | 5.93 | Ø | 1.17 | v | 0 | S | 0 | S | 0 | v | 1.39 | S | 0.85 | 09/07/14 | | | | | | | | | | |
| 4.19 Ö | 5 | 1.33 | 6 | 1.94 | E | 6.07 | 5 | 1.26 | 5 | 0 | Ö | 0 | E | 0 | 5 | 1.37 | 8 | 0.85 | 09/08/14 | | | | | | | | | | |
| 4.11 ∺ | Έ | | ΞĚ | | ΞĚ | | 谦 | | ΞĚ | _ | ΞĚ | 0 | ΞĖ | 0 | 谦 | | ΞĒ | | | | | | | | | | | | |
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| 4.11 | | | | _ | | | | - | | _ | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.09 | | | | | | | | | | _ | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.06 | | | | | | | | | | _ | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.09 | | | | | | | | | | _ | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.01 | | | | | | | | | | _ | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.07 | | | | | | | | | | 0 | | 0 | | 0 | | | | | | | | | | | | | | | |
| 4.14 | | | | 1.88 | | | | | | 0 | | 0 | | 0 | | | | | | | | | | | | | | | |
| Conc (mg/L) Date | 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) | Analytical ⁴ | | | | | | | | | | |
| 4 1500 8/11/2014 | 8/11/2014 | 1000 | 8/11/2014 | 680 | 8/11/2014 | 1100 | 8/11/2014 | 1300 | 8/14/2014 | 130 | NA ² | NA ² | NA ² | NA ² | 8/11/2014 | 120 | 8/11/2014 | 2000 | Perchlorate ¹ | | | | | | | | | | |
| | 8/11/2014 | | | 6.9 | | 2.7 | | 0.16 | | 1.4 | NA ³ | NA ³ | NA ³ | NA ³ | | 0.77 | | 0.47 | | | | | | | | | | | |
| 7201 | Date 8/11/2 | 1.33 0.89 1.30 1.28 1.38 1.08 1.27 1.26 1.27 1.26 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.27 1.26 1.26 1.27 1.26 1.26 1.27 1.26 1.26 1.26 1.26 1.26 1.26 1.27 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.27 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.27 1.26 1.27 1.27 1.26 1.26 1.26 1.26 1.27 1.27 1.27 1.28 1.29 1.26 1.26 1.27 1.27 1.27 1.28 1.29 1.25 1.27 | Puture Metric | 1.91 1.27 1.92 1.91 1.90 1.90 1.90 1.90 1.89 1.90 1.84 1.89 1.87 1.87 1.87 1.89 1.88 1.88 1.88 Conc (mg/L) 680 | | 6.11 4.08 5.98 5.97 5.95 5.97 5.92 5.94 5.93 5.97 5.76 5.78 5.81 5.82 5.81 5.82 5.86 5.86 5.86 5.86 | | 1.17 0.89 1.16 1.12 1.17 1.06 1.16 1.18 1.11 1.18 1.11 1.08 1.11 1.09 1.05 1.07 1.11 1.07 1.13 1.06 1.10 1.13 Conc (mg/L) 1300 | Puture Metric | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | NA ² | O Conc (mg/L) | - Date NA ² | O Conc (mg/L) | | 1.36 0.96 1.37 1.36 1.38 1.38 1.37 1.36 1.37 1.36 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 | Puture Metric | 0.84 0.80 0.86 0.86 0.85 0.87 0.83 0.82 0.81 0.82 0.80 0.82 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.82 0.82 0.82 0.83 0.82 0.83 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.82 0.80 0.80 | 09/05/14 09/10/14 09/11/14 09/12/14 09/13/14 09/13/14 09/15/14 09/15/14 09/17/14 09/17/14 09/20/14 09/20/14 09/21/14 09/23/14 09/23/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 09/25/14 | | | | | | | | | | |

^{1:} Quarterly results, most recent sampling concentrations listed (Samples will be transitioned to monthly reporting in the future)

^{2:} No data recorded on chain of custody log

^{3:} No data recorded on chain of custody log

3: No data reported from Test America

4: Analytical results are reported from TestAmerica

| | Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|------------|--------------|-----------|--------------|----------------|--------------|------------|--------------|------------|--------------|-----------|--------------|------------|-------------|------------|--------------|------------|--------------|---------------|
| Data | I-0 | G | I- | Н | ŀ | - | - | J | Į- | K | I- | L | Į- | M | I- | N | I- | 0 | I- | Р |
| Date | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) | (gpm) | (ft) |
| 09/01/14 | 0.18 | | 1.45 | | 4.71 | | 2.64 | | 5.20 | | 2.33 | | 3.01 | | 3.11 | | 2.46 | | 3.97 | |
| 09/02/14 | 0.18 | | 1.45 | | 4.82 | | 2.66 | | 5.23 | | 2.30 | | 3.00 | | 3.09 | | 2.45 | | 3.95 | |
| 09/03/14 | 0.16 | | 1.46 | | 4.75 | | 2.63 | | 5.23 | | 2.28 | | 3.01 | | 3.10 | | 2.45 | | 3.97 | |
| 09/04/14 | 0.16 | | 1.44 | | 4.77 | | 2.65 | | 5.24 | | 2.28 | | 2.99 | | 2.87 | | 2.45 | | 3.96 | |
| 09/05/14 | 0.17 | | 1.44 | | 4.61 | | 2.66 | | 5.23 | | 2.25 | | 2.99 | | 3.24 | | 2.45 | | 3.90 | |
| 09/06/14 | 0.17 | | 1.44 | | 3.13 | | 2.60 | | 5.10 | | 2.23 | | 2.99 | | 3.06 | | 2.44 | | 3.92 | |
| 09/07/14 | 0.16 | | 1.44 | | 4.80 | | 2.67 | | 5.24 | | 2.27 | | 3.02 | | 3.08 | | 2.45 | | 3.91 | |
| 09/08/14 | 0.17 | SU | 1.43 | Ĕ | 4.78 | Š | 2.67 | Š | 5.21 | Ë | 2.25 | Ë | 3.00 | Ę | 3.06 | S. | 2.45 | Ĕ | 3.90 | S. |
| 09/09/14 | 0.14 | tio | 1.44 | : <u></u> | 4.75 | i ĝ | 2.66 | : <u>£</u> | 5.17 | : <u>ફ</u> | 2.24 | : <u></u> | 2.99 | 읉 | 3.04 | 읉 | 2.45 | : <u></u> | 3.91 | 읉 |
| 09/10/14 | 0.09 | e La | 1.07 | perations | 3.23 | 29 | 1.79 | <u>0</u> | 3.58 | <u>0</u> | 1.76 | perations | 1.98 | 6 | 2.03 | 6 | 1.84 | <u>0</u> | 3.14 | <u>a</u> |
| 09/11/14 | 0.12 | Operations | 1.54 | ğ | 4.32 | Operations | 2.62 | Operations | 5.17 | Operations | 2.41 | ğ | 2.98 | Operations | 3.09 | Operations | 2.78 | Operations | 4.34 | Operations |
| 09/12/14 | 0.12 | | 1.50 | Ō | 4.84 | | 2.67 | | 5.22 | | 2.33 | 0 | 2.95 | | 3.08 | | 2.78 | | 4.14 | 0 |
| 09/13/14 | 0.14 | e e | 1.48 | ĕ | 4.62 | ě | 2.36 | õ | 4.97 | ĕ | 2.26 | 9 | 2.81 | 9 | 3.06 | 9 | 2.79 | ĕ | 4.06 | 9 |
| 09/14/14 | 0.13 | ou ou | 1.47 | 2 | 5.07 | 2 | 3.08 | 2 | 5.45 | 2 | 2.27 | 2 | 2.50 | 2 | 3.06 | 2 | 2.75 | 2 | 3.96 | 2 |
| 09/15/14 | 0.14 | Enhanced | 1.46 | Enhanced | 4.78 | Enhanced | 2.63 | Enhanced | 5.12 | Enhanced | 2.22 | Enhanced | 2.49 | Enhanced | 3.05 | Enhanced | 2.76 | Enhanced | 3.94 | Enhanced |
| 09/16/14 | 0.15 | i. | 1.46 | ᇤ | 4.84 | <u></u> | 2.65 | <u></u> | 5.19 | ᇤ | 2.24 | ᇤ | 2.50 | <u></u> | 3.06 | i. | 2.78 | ᇤ | 3.94 | <u></u> |
| 09/17/14 | 0.18 | | 1.45 | | 4.80 | | 2.63 | - | 5.17 | | 2.22 | _ | 2.51 | | 3.04 | | 2.76 | | 3.91 | |
| 09/18/14 | 0.17 | Metric | 1.45 | Metric | 4.79 | Metric | 2.63 | etric | 5.17 | Metric | 2.22 | Metric | 2.50 | Metric | 3.04 | Metric | 2.77 | Metric | 4.11 | . <u></u> 2 |
| 09/19/14 | 0.16 | Ē | 1.45 | ₽ | 4.79 | 큠 | 2.62 | 큠 | 5.14 | 큠 | 2.21 | 듇 | 2.50 | Ē | 3.04 | Ē | 2.76 | ₽ | 3.71 | 큠 |
| 09/20/14 | 0.18 | Σ | 1.43 | ≥ | 4.67 | Σ | 2.56 | ž | 5.04 | ≥ | 2.17 | ≥ | 2.41 | Σ | 2.95 | ≥ | 2.70 | ≥ | 3.82 | Σ |
| 09/21/14 | 0.17 | Future | 1.44 | Future | 4.81 | Future | 2.61 | Future | 5.19 | Future | 2.26 | Future | 2.46 | Future | 3.02 | Future | 2.75 | Future | 3.91 | Future Metric |
| 09/22/14 | 0.18 | 主 | 1.48 | 룉 | 4.73 | 룉 | 2.59 | 룉 | 5.10 | 뢷 | 2.29 | 롹 | 2.52 | 뤽 | 3.08 | 롹 | 2.82 | 룉 | 3.96 | 뤽 |
| 09/23/14 | 0.18 | Ē | 1.44 | 丘 | 4.83 | 丘 | 2.63 | 屲 | 5.20 | 丘 | 2.20 | 丘 | 2.50 | 屲 | 3.03 | 匠 | 2.78 | 丘 | 3.88 | щ |
| 09/24/14 | 0.20 | | 1.42 | | 4.88 | | 2.67 | | 5.30 | | 2.20 | | 2.48 | | 3.02 | | 2.72 | | 3.82 | |
| 09/25/14 | 0.22 | | 1.45 | | 4.84 | | 2.63 | | 5.23 | | 2.22 | | 2.53 | | 3.07 | | 2.79 | | 3.90 | |
| 09/26/14 | 0.21 | | 1.45 | | 4.83 | | 2.63 | | 5.25 | | 2.23 | | 2.52 | | 3.05 | | 2.77 | | 3.90 | |
| 09/27/14 | 0.18 | | 1.45 | | 4.82 | | 2.63 | | 5.25 | | 2.21 | | 2.50 | | 3.04 | | 2.78 | | 3.92 | |
| 09/28/14 | 0.19 | | 1.43 | | 4.75 | | 2.60 | | 5.16 | | 2.20 | | 2.48 | | 3.02 | | 2.73 | | 3.84 | |
| 09/29/14 | 0.18 | | 1.44 | | 4.81 | | 2.63 | | 5.24 | | 2.20 | | 2.50 | | 3.03 | | 2.77 | | 3.87 | |
| 09/30/14 | 0.18 | | 1.45 1.44 | | 4.81 4.67 | | 2.63 2.61 | | 5.23 5.14 | | 2.21 2.23 | | 2.52 2.67 | | 3.03 | | 2.77 2.64 | | 3.88 3.91 | |
| Monthly Average | 0.17 | | | | | | | | | | | | | | | | | | | _ |
| Analytical ⁴ | Conc (mg/L) | | 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 ¹ | 1600 | 8/11/2014 | 1700 | 8/11/2014 | 950 | 8/14/2014 | 260 | 8/14/2014 | 210 | 8/14/2014 | 810 | 8/11/2014 | 670 | 8/11/2014 | 1100 | 8/11/2014 | 1300 | 8/11/2014 | 1800 | 8/11/2014 |
| Total Chromium ¹ | 22 | 8/11/2014 | 20 | 8/11/2014 | 13 | 8/14/2014 | 4.4 | 8/14/2014 | 2.2 | 8/14/2014 | 0.94 | 8/11/2014 | 7.6 | 8/11/2014 | 8.9 | 8/11/2014 | 13 | 8/11/2014 | 17 | 8/11/2014 |

^{1:} Quarterly results, most recent sampling concentrations listed (Samples will be transitioned to monthly reporting in the future)

^{4:} Analytical results are reported from TestAmerica

| | Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|------------|--------------|-----------|--------------|------------|--------------|----------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---------------|
| Date | I-0 | Q | I-I | R | I- | ·S | I- | Т | I- | U | I- | V | - | w | Į- | Х | I- | Υ | Į. | Z |
| Date | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level | Flow | Level |
| 09/01/14 | 0.49 | | 2.67 | | 5.14 | | 0.47 | | 0.87 | | 5.81 | | 1.14 | | 3.18 | | 2.16 | | 2.73 | |
| 09/02/14 | 0.49 | | 2.63 | | 5.11 | | 0.52 | | 0.86 | | 5.83 | | 1.14 | | 3.16 | | 0.60 | | 2.76 | |
| 09/03/14 | 0.49 | | 2.62 | | 5.11 | | 0.45 | | 0.86 | | 5.82 | | 1.16 | | 3.17 | | 1.37 | | 2.75 | |
| 09/04/14 | 0.49 | | 2.65 | | 5.09 | | 0.49 | | 0.87 | | 5.83 | | 1.19 | | 3.14 | | 1.38 | | 2.76 | |
| 09/05/14 | 0.48 | | 2.65 | | 5.07 | | 0.49 | | 0.86 | | 5.83 | | 1.20 | | 3.15 | | 1.35 | | 2.77 | |
| 09/06/14 | 0.48 | | 2.63 | | 5.03 | | 0.48 | | 0.86 | | 5.68 | | 1.20 | | 3.12 | | 1.35 | | 2.70 | |
| 09/07/14 | 0.48 | S | 2.67 | S | 5.15 | Ø | 0.48 | S | 0.87 | S | 5.81 | Ø | 1.22 | S | 3.15 | Ø | 1.37 | S | 2.78 | S |
| 09/08/14 | 0.48 | o | 2.66 | 6 | 4.90 | e G | 0.49 | 8 | 0.87 | e G | 5.77 | e E | 1.24 | e G | 3.14 | 6 | 1.38 | e G | 2.75 | e e |
| 09/09/14 | 0.48 | ati | 2.65 | perations | 4.90 | ä. | 0.51 | i j | 0.87 | äŧ | 5.73 | i <u>f</u> | 1.25 | æ. | 3.13 | æ. | 1.36 | ä. | 2.74 | äŧ |
| 09/10/14 | 0.36 | ē | 1.95 | ē | 3.48 | ē | 0.34 | ē | 0.63 | ē | 3.88 | ē | 0.77 | ē | 2.41 | ē | 1.01 | ë | 1.84 | ē |
| 09/11/14 | 0.51 | Operations | 2.69 | ဝိ | 5.12 | Operations | 0.48 | Operations | 0.90 | Operations | 5.70 | Operations | 1.18 | Operations | 3.39 | Operations | 0.74 | Operations | 2.71 | Operations |
| 09/12/14 | 0.50 0.49 | | 2.68 | | 5.10 | | 0.47 0.49 | | 0.90 0.87 | | 5.81 | | 1.17 | 7 | 3.27 3.21 | | 1.97 | | 2.76 | |
| 09/13/14 | 0.49 | ě | 2.65 2.67 | ė | 5.08 5.13 | ė | 0.49 | ė | 0.87 | ė | 5.52 6.05 | ė | 1.18 1.18 | ė | 3.21 | ė | 1.38 1.88 | ė | 2.63 2.9 | ė |
| 09/14/14 | | Ĕ | | Ē | | Ē | | Ē | | Ě | | Ě | _ | Ě | | Ě | | Ē | - | Ě |
| 09/15/14 09/16/14 | 0.48 0.49 | Enhanced | 2.62 2.63 | Enhanced | 5.09 5.10 | Enhanced | 0.51 0.48 | Enhanced | 0.88 0.89 | Enhanced | 5.75 5.81 | Enhanced | 1.18 1.20 | Enhance | 3.15 3.17 | Enhanced | 1.01 1.37 | Enhanced | 2.74 2.77 | Enhanced |
| 09/17/14 | 0.49 | ш | 2.64 | 竝 | 5.06 | ш | 0.48 | 竝 | 0.88 | 山 | 5.78 | 竝 | 1.20 | 山 | 3.15 | ш | 1.37 | 面 | 2.77 | ш |
| 09/18/14 | 0.48 | | 2.65 | | 5.05 | | 0.48 | | 0.88 | | 5.77 | | 1.20 | | 3.15 | | 1.36 | | 2.75 | |
| 09/19/14 | 0.48 | Metric | 2.67 | Metric | 5.06 | Metric | 0.53 | Metric | 0.88 | Metric | 5.72 | Metric | 1.21 | Metric | 3.13 | Metric | 1.38 | Metric | 2.74 | Ē |
| 09/20/14 | 0.48 | Je! | 2.62 | ē | 4.89 | <u>e</u> | 0.43 | ē | 0.88 | ē | 5.54 | <u>e</u> | 1.15 | <u>e</u> | 3.08 | <u>e</u> | 1.35 | <u>ē</u> | 2.67 | <u>e</u> |
| 09/21/14 | 0.48 | 2 | 2.67 | 2 | 5.25 | | Reset | 2 | 0.88 | 2 | 5.67 | 2 | 1.02 | 2 | 3.15 | 2 | 1.38 | 2 | 2.73 | 2 |
| 09/22/14 | 0.48 | a.n | 2.71 | Ĕ | 5.34 | i i | 0.41 | Ĕ | 0.90 | ž, | 5.60 | Ĕ | 1.05 | ž, | 3.20 | i i | 1.39 | Ĕ | 2.70 | ž. |
| 09/23/14 | 0.48 | Future | 2.71 | Future | 5.28 | Future | 0.49 | Future | 0.89 | Future | 5.71 | Future | 1.03 | Future | 3.13 | Future | 1.37 | Future | 2.75 | Future Metric |
| 09/24/14 | 0.47 | ш | 2.67 | ш | 5.24 | ш | 0.50 | ш | 0.88 | ш | 5.77 | ш | 1.01 | ш | 3.09 | ш | 1.38 | ш | 2.78 | ш |
| 09/25/14 | 0.47 | | 2.68 | | 5.30 | | 0.49 | | 0.89 | | 5.74 | | 1.02 | | 3.12 | | 1.39 | | 2.76 | |
| 09/26/14 | 0.48 | | 2.65 | | 5.28 | | 0.47 | | 0.88 | | 5.74 | | 1.00 | | 3.13 | | 1.38 | | 2.75 | |
| 09/27/14 | 0.47 | | 2.62 | | 5.28 | | 0.45 | | 0.89 | | 5.75 | | 1.05 | | 3.12 | | 1.38 | | 2.76 | |
| 09/28/14 | 0.47 | | 2.61 | | 5.28 | | 0.53 | | 0.88 | | 5.67 | | 1.05 | | 3.10 | | 1.39 | | 2.71 | |
| 09/29/14 | 0.48 | | 2.61 | | 5.32 | | 0.49 | | 0.89 | | 5.74 | | 1.06 | | 3.13 | | 1.38 | | 2.75 | |
| 09/30/14 | 0.48 | | 2.59 | | 5.28 | | 0.48 | | 0.90 | | 5.71 | | 1.06 | | 3.11 | | 1.39 | | 2.74 | |
| Monthly Average | 0.48 | | 2.63 | | 5.08 | | 0.48 | | 0.87 | | 5.68 | | 1.12 | | 3.13 | | 1.37 | | 2.71 | |
| Analytical ⁴ | 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 ¹ | 1400 | 8/11/2014 | 1300 | 8/11/2014 | 790 | 8/11/2014 | 1500 | 8/11/2014 | 1400 | 8/11/2014 | 1100 | 8/14/2014 | 1500 | 8/11/2014 | 1700 | 8/11/2014 | 970 | 8/11/2014 | 630 | 8/14/2014 |
| Total Chromium ¹ | 21 | 8/11/2014 | 0.55 | 8/11/2014 | 1.5 | 8/11/2014 | 23 | 8/11/2014 | 23 | 8/11/2014 | | 8/14/2014 | 14 | 8/11/2014 | 11 | 8/11/2014 | 0.83 | 8/11/2014 | 8.1 | 8/14/2014 |

^{1:} Quarterly results, most recent sampling concentrations listed (Samples will be transitioned to monthly reporting in the future)
4: Analytical results are reported from TestAmerica
Flow reported as gpm is a daily average calculated from the totalizer reading

| | | Nevada | a Environment | tal Response T | rust I Ground | dwater Extract | ion and Treat | ment System | Enhanced Op | erational Met | rics | | |
|-----------------|-----------------|---------------|-----------------|---------------------|---------------------|-----------------------|------------------------|------------------------------|-----------------------------|--------------------------|---------------------|-------------------|------|
| | LS #2 | GWTP Effluent | GW-11 | Influent | | | FBR Plan | t Influent ² | | | 1s ⁻ | t Stage FBR Influ | ent |
| Date | Flow | | Flow | CIO ₄ | Flow | TA - CIO ₄ | ETI - CIO ₄ | | | TA - NO ₃ - N | Flow | pН | ORP |
| | (gpm) | Flow (gpm) | (gpm) | (mg/L) | (gpm) | (mg/L) | (mg/L) | TA - CIO ₃ (mg/L) | TA - SO ₄ (mg/L) | (mg/L) | (gpm) | (s.u.) | (mV) |
| 09/01/14 | 855 | 57 | 912 | | | | 119 | | | | | 6.0 | -402 |
| 09/02/14 | 858 | 60 | 918 | | | | 119 | 200 | 1600 | | | 6.0 | -388 |
| 09/03/14 | 858 | 59 | 917 | | | | 116 | | | 11 | | 6.0 | -341 |
| 09/04/14 | 857 | 59 | 916 | | | | 110 | | | | | 5.9 | -358 |
| 09/05/14 | 856 | 62 | 918 | | | | 119 | | | | | 6.0 | -367 |
| 09/06/14 | 857 | 57 | 914 | | | 130 | 119 | | | | | 5.9 | -370 |
| 09/07/14 | 855 | 61 | 916 | | | | 108 | | | | | 6.8 | -373 |
| 09/08/14 | 857 | 61 | 918 | | | | 103 | | | 11 | | 6.3 | -365 |
| 09/09/14 | 858 | 51 | 909 | Enhanced Operations | Enhanced Operations | | 121 | | | | Enhanced Operations | 6.0 | -363 |
| 09/10/14 | 856 | 49 | 905 | Ė | atic . | | NA ³ | | | | atic | 6.7 | -333 |
| 09/11/14 | 854 | 59 | 913 | ers | ers | | 121 | | | | era | 6.5 | -261 |
| 09/12/14 | 854 | 56 | 910 | ç | ç | | 119 | | | | d | 6.9 | -296 |
| 09/13/14 | 855 | 69 | 924 | g | D. | 110 | 117 | | | | D. | 6.5 | -323 |
| 09/14/14 | 856 | 55 | 911 | 92 | 900 | | 113 | | | | 900 | 6.5 | -332 |
| 09/15/14 | 856 | 58 | 914 | lai | har | | 124 | | | 11 | hai | 6.5 | -297 |
| 09/16/14 | 856 | 61 | 917 | 딥 | 딥 | | 115 | | | | Ш | 6.4 | -312 |
| 09/17/14 | 856 | 60 | 916 | | | | 114 | | | | | 6.3 | -283 |
| 09/18/14 | 856 | 58 | 914 | ţi | tric | | 116 | | | | tric | 6.3 | -280 |
| 09/19/14 | 856 | 61 | 917 | ₩ | Me | | 104 | | | | Me | 6.3 | -350 |
| 09/20/14 | 856 | 57 | 913 | <u>ө</u> | ē | 120 | 102 | | | | ė. | 8.1 | -356 |
| 09/21/14 | 856 | 60 | 916 | Future Metric | Future Metric | | 104 | | | | Future Metric | 6.2 | -356 |
| 09/22/14 | 856 | 57 | 913 | 丘 | 교 | | 116 | | | 10 | 교 | 6.2 | -365 |
| 09/23/14 | 855 | 59 | 914 | | | | 116 | | | | | 6.2 | -369 |
| 09/24/14 | 857 | 58 | 915 | | | | 119 | | | | | 6.1 | -371 |
| 09/25/14 | 854 | 57 | 911 | | | | 118 | | | | | 6.1 | -378 |
| 09/26/14 | 852 | 60 | 912 | | | | 114 | | | | | 6.1 | -371 |
| 09/27/14 | 852 | 60 | 912 | | | 120 | 119 | | | | | 7.0 | -368 |
| 09/28/14 | 856 | 58 | 914 | | | | 115 | | | | | 6.1 | -374 |
| 09/29/14 | 852 | 58 | 910 | | | | 114 | | | 11 | | 6.1 | -373 |
| 09/30/14 | NA ¹ | 58 | NA ¹ | | | | 106 | | | | | 3.7 | -245 |
| Monthly Average | 856 | 58 | 914 | | | 120 | 114 | 200 | 1600 | 11 | | 6.3 | -340 |

^{1:} Computer outage; flow and hours between readings adjusted while totalizer readings manually collected mid-day Oct 1

^{2:} ETI = Envirogen internal process control data, TA = TestAmerica data

^{3:} No data collected

| | Nevada Envir | onmental Res | ponse Trust I | Groundwater | Extraction and | Treatment S | ystem I Enhan | ced Operation | al Metrics | |
|-----------------|-------------------------------------|-------------------|---------------|-------------|-----------------------|------------------------|------------------------------|-----------------------------|--------------------------|-----------------|
| | 2n | d Stage FBR Influ | ient | | | | FBR Plant Effluent | t ² | | |
| Date | Flow | рН | ORP | Flow | TA - CIO ₄ | ETI - CIO ₄ | | | TA - NO ₃ - N | ETI - Turbidity |
| | (gpm) | (s.u.) | (mV) | (gpm) | (mg/L) | (mg/L) | TA - ClO ₃ (mg/L) | TA - SO ₄ (mg/L) | (mg/L) | (NTU) |
| 09/01/14 | | 6.5 | -377 | 888 | | ND | | | | 7 |
| 09/02/14 | | 6.5 | -371 | 906 | | ND | ND | 1400 | | 11 |
| 09/03/14 | | 6.6 | -354 | 911 | | ND | | | 0.66 | 7 |
| 09/04/14 | | 6.4 | -356 | 914 | | ND | | | | 8 |
| 09/05/14 | | 6.5 | -359 | 909 | | ND | | | | 7 |
| 09/06/14 | | 6.5 | -360 | 892 | ND | ND | | | | 17 |
| 09/07/14 | | 6.6 | -364 | 867 | | ND | | | | 6 |
| 09/08/14 | | 6.5 | -361 | 900 | | ND | | | ND | 7 |
| 09/09/14 | su | 6.5 | -353 | 912 | | ND | | | | 7 |
| 09/10/14 | atio | 7.1 | -341 | 291 | | ND | | | | NA ³ |
| 09/11/14 | era | 7.0 | -361 | 758 | | ND | | | | 0 |
| 09/12/14 | фС | 6.8 | -368 | 801 | | ND | | | | 1 |
| 09/13/14 |) p | 6.9 | -375 | 800 | ND | ND | | | | 10 |
| 09/14/14 | ອວເ | 6.8 | -359 | 792 | | ND | | | | 14 |
| 09/15/14 | Future Metric - Enhanced Operations | 6.7 | -359 | 800 | | ND | | | ND | 11 |
| 09/16/14 | in: | 6.8 | -378 | 808 | | ND | | | | 0 |
| 09/17/14 | | 6.7 | -357 | 846 | | ND | | | | 9 |
| 09/18/14 | tric | 6.7 | -360 | 818 | | ND | | | | 6 |
| 09/19/14 | ۸e | 6.5 | -379 | 815 | | ND | | | | 7 |
| 09/20/14 | e. | 6.7 | -387 | 857 | ND | ND | | | | 0 |
| 09/21/14 | tur | 6.5 | -380 | 845 | | ND | | | | 0 |
| 09/22/14 | Fu | 6.5 | -370 | 831 | | ND | | | ND | 0 |
| 09/23/14 | | 6.6 | -372 | 844 | | ND | | | | 14 |
| 09/24/14 | | 6.6 | -373 | 776 | | ND | | | | 6 |
| 09/25/14 | | 6.6 | -379 | 859 | | ND | | | | 11 |
| 09/26/14 | | 6.6 | -378 | 824 | | ND | | | | 4 |
| 09/27/14 | | 6.6 | -378 | 834 | ND | ND | | | | 18 |
| 09/28/14 | | 6.6 | -376 | 850 | | ND | | | | 8 |
| 09/29/14 | | 6.6 | -373 | 850 | | ND | | | 1.7 | 6 |
| 09/30/14 | | 6.6 | -375 | 834 | | ND | | | | 11 |
| Monthly Average | | 6.6 | -368 | 828 | ND | ND | ND | 1400 | 1.2 | 7 |

ND = Not detected above laboratory detection limit ($CIO_4 = 0.5 \text{ ug/L}$; $CIO_3 = 10 \text{ ug/L}$; $NO_3 = 0.055 \text{ mg/L}$)

 $^{1:} Computer \ outage; flow \ and \ hours \ between \ readings \ adjusted \ while \ totalizer \ readings \ manually \ collected \ mid-day \ Oct \ 1$

^{2:} ETI = Envirogen internal process control data, TA = TestAmerica data

^{3:} No data collected

Table 5 - GW-11 Operational Metrics Page 1 of 1

GW-11 Level Monitoring

| | GW-: | 11 |
|-----------|-------|--------|
| Date | Level | Volume |
| | (ft) | (MG) |
| 9/4/2014 | 14.6 | 41.4 |
| 9/11/2014 | 13.4 | 43.2 |
| 9/18/2014 | 13.3 | 43.3 |
| 9/25/2014 | 13.3 | 43.3 |

GW-11 Leak Detection Monitoring

| Date | Amount Pumped (gallons) |
|-----------|-------------------------|
| 9/1/2014 | 0 |
| 9/11/2014 | 0 |

GW-11 Composite Sample Collected: 9/4/2014

| Analytes | Concentration | Units |
|------------------------------|---------------|-------|
| Perchlorate | 100 | mg/L |
| Chlorate | 140 | mg/L |
| Ammonia as N | 2.6 | mg/L |
| Total Phosphorus | 0.11 | mg/L |
| Total Dissolved Solids (TDS) | 6000 | mg/L |
| Total Suspended Solids (TSS) | 43 | mg/L |
| рН | 8.27 | s.u. |
| Calcium | 360 | mg/L |
| Iron | 0.37 | mg/L |
| Chromium (total) | 0.016 | mg/L |
| Chromium VI | ND | mg/L |
| Chloride | 1800 | mg/L |
| Nitrate as N | 4.4 | mg/L |
| Sulfate | 1700 | mg/L |

Notes:

ND = Not detected above laboratory detection limit (CrVI = 0.25 ug/L)

Table 6 - Equivalent Load Estimates Page 1 of 1

| Nevada Envi | ronmental Respons | e Trust Groundwa | ater Extraction and | Treatment System | I Enhanced Operat | ional Metrics |
|-------------|-------------------|--------------------|---------------------|------------------|-----------------------------|--------------------|
| | | FBR Influent (| Concentration | | Influent Function | 6 Month Rolling |
| Date | Flow | CIO ₄ | NO₃ as N | CIO ₃ | Load ¹ (lbs/day) | Average (lbs/day) |
| | (gpm) | (mg/L) | (mg/L) | (mg/L) | Load (lbs/day) | Average (185) day) |
| Oct 2013 | 971 | 117 | 11.5 | 230 | 821 | 750 |
| Nov 2013 | 891 | 112 | 12.5 | 250 | 790 | 760 |
| Dec 2013 | 905 | 101 | 12.2 | 230 | 741 | 759 |
| Jan 2014 | 932 | 120 | 11.7 | 210 | 759 | 776 |
| Feb 2014 | 950 | 113 | 12.0 | 210 | 762 | 778 |
| Mar 2014 | 958 | 106 | 9.8 | 210 | 732 | 768 |
| Apr 2014 | 966 | 56 | 4.0 | 110 | 376 | 693 |
| May 2014 | 951 | 84 | 8.9 | 170 | 594 | 660 |
| June 2014 | 906 | 123 | 9.0 | 220 | 735 | 660 |
| July 2014 | 786 | 123 | 8.8 | 220 | 636 | 639 |
| Aug 2014 | 880 | 116 | 10.6 | 190 | 663 | 623 |
| Sept 2014 | 828 | 120 | 10.8 | 200 | 649 | 609 |

Notes:

1: FBR loading calcuated as $[0.9*NO_3$ as N + $0.17*ClO_3$ + $0.18*ClO_4*Flow*1440/1000000*8.34]$

Concentrations and flow are presented as monthly average

Figures Operational Metrics

Figure 1 - GW-11 Pond Volume and Perchlorate Concentration

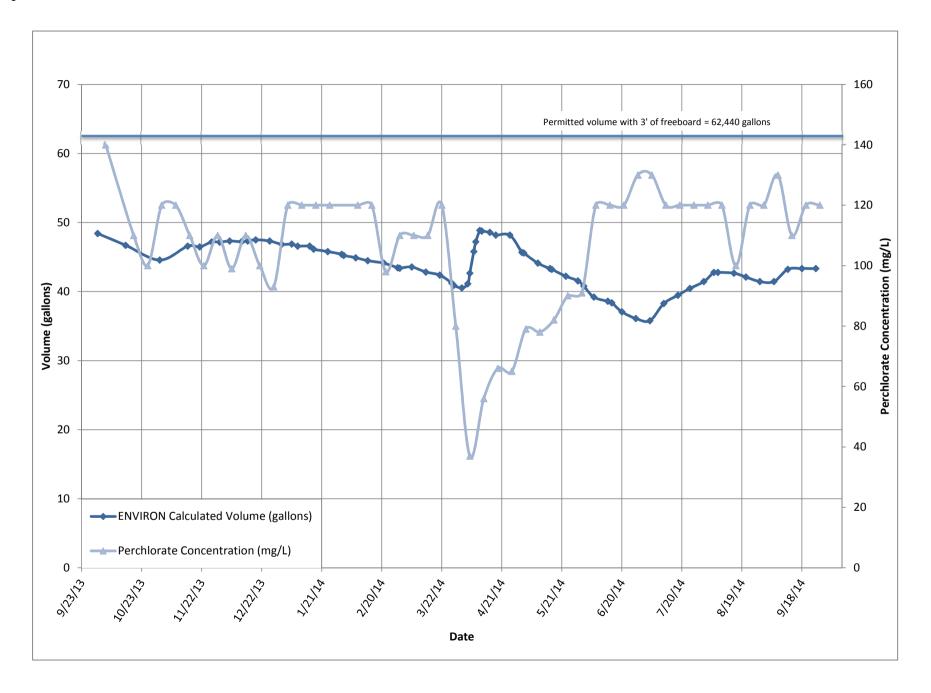
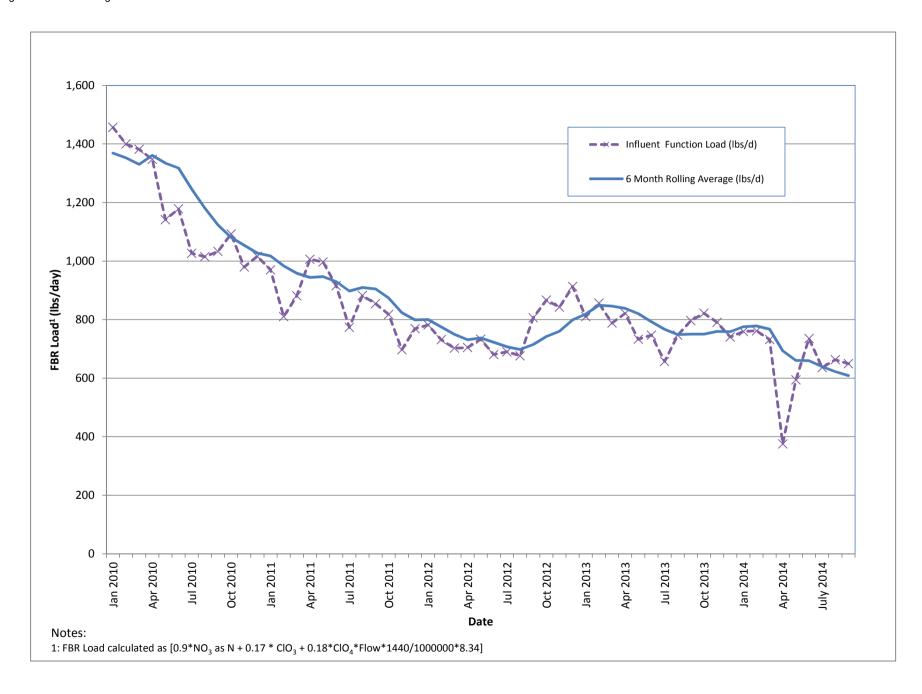


Figure 2 - FBR Loading



Attachment A

NPDES Tracking Sheet (Prepared by ENVIRON)

WORKING TRACKING SPREADSHEET

DRAFT - NOT TO BE SUBMITTED TO AGENCY

| | Cont | tinuous | Daily samples, cor | mposited weekly | | | | | | W | eekly sample/ | es | | | Weel | ly samples, co | lected separate | ly Qua | rterly sample |
|--------------------------------|----------------------|------------------------|-----------------------|--------------------------|----|----------------------|------------------------|----------------------|-----------------------|--------------------------|-----------------------|----------------------------|--------------------------|--------------------------|----------------|----------------|-----------------|--------|---------------|
| | Flov | w Rate | Perchi | orate | | рН | Hexavalent Chromium | Total Chromium | | ended Solids 'SS) | Tota | al Iron | Total Ammonia as N | Total Phosphorus as P | | BOD₅ (inh | ibited) | N. | ∕langanese |
| | 30-Day Avg. (MGD) | Daily Maximum (MGD) | 30-Day Avg. (ug/L) | 30-Day Avg. (lbs/day) | 30 | O-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. (Ibs/day) | 30-Day Avg. (lbs/day) | 30-Day (mg, | | | - | |
| | 1.45 | 1.75 | 18 | 0.22 | 6 | 6.5 to 9.0 | 0.01 | 0.1 | 135 | 1,634 | 10 | 121.03 | 40 | 20 | 25 | 40 | 254 | 5 | 60.52 |
| December 2013 | 1.30 | 1.34 | 1.3 | 0.014 | | 6.98 | 0.00013 | 0.014 | 20 | 220 | 3.6 | 39 | 1.8 | 1.7 | 2.5 | 3.8 | 27 | | |
| January 2014 | 1.34 | 1.37 | 1.3 | 0.014 | | 6.91 | 0.0013 | 0.036 | 28 | 320 | 4.2 | 47 | 5.3 | 3.3 | 4.2 | 5.2 | 47 | 0.57 | 6.5 |
| February 2014 | 1.37 | 1.44 | 1.3 | 0.014 | | 7.08 | 0.00013 | 0.020 | 19 | 220 | 2.9 | 33 | 10 | 3.2 | 5.2 | 9.9 | 58 | | |
| March 2014 | 1.38 | 1.48 | 1.3 | 0.014 | | 6.98 | 0.00048 | 0.012 | 25 | 260 | 5.2 | 55 | 6 | 2.3 | 2.6 | 3.7 | 30 | | |
| April 2014 | 1.07 | 1.46 | 1.3 | 0.012 | | 6.63 | 0.00029 | 0.028 | 17 | 170 | 3.8 | 37 | 2.2 | 1.9 | 4.3 | 6.3 | 44 | 0.15 | 1.6 |
| May 2014 | 1.37 | 1.48 | 1.3 | 0.014 | | 6.81 | 0.0013 | 0.012 | 19 | 220 | 3.3 | 38 | 8 | 3.1 | 3.3 | 3.4 | 35 | | |
| June 2014 | 1.31 | 1.37 | 1.3 | 0.014 | | 6.69 | 0.00013 | 0.017 | 17 | 170 | 3.3 | 35 | 5 | 2.0 | 2.4 | 5.4 | 26 | | |
| July 2014 | 1.11 | 1.40 | 1.3 | 0.012 | | 6.88 | 0.00013 | 0.020 | 32 | 290 | 6.7 | 61 | 2.2 | 3.2 | 4.3 | 5.4 | 40 | 0.24 | 2.0 |
| August 2014 | 1.27 | 1.60 | 1.3 | 0.013 | • | 6.80 | 0.00013 | 0.034 | 20 | 210 | 3.9 | 41 | 2.8 | 2.1 | 3.2 | 5.7 | 33 | | |
| September 2014 (month-to-date) | 1.16 | 1.32 | 1.3 | 0.012 | • | 6.73 | 0.00013 | 0.021 | 23 | 235 | 4.5 | 44 | 1.1 | 10 | 2.3 | 3.8 | 23 | | |

| Daily Grab | Composite | | /1 | lha /day | Sample Date | CII | /I | a/1 | a/1 | lhe /des | /1 | lles /elou | | a/1 | lhe/dou | /I | lha /dau | Comple Date | mg/L | lhe/dou | /I | lho/dou |
|----------------------------|------------------------|------------------------|------|----------------|------------------------|--------------|--------------------------|------------------|----------|------------|------------|------------|------------|--------------|------------|--------------|------------|------------------------|------------|----------|------|---------|
| Sample Dates | Sample Date | | ug/L | lbs/day | · | S.U. | mg/L | mg/L | mg/L | lbs/day | mg/L | lbs/day | | mg/L | lbs/day | mg/L | lbs/day | Sample Date | | lbs/day | mg/L | lbs/day |
| 12/1 - 12/7 | 12/7/2013 | ND (<2.5) | 1.3 | 0.014 | 12/2/2013 | 7.11 | ND (<0.00025) | 0.0031 | 39 | 430 | 4.2 | 46 | ND (<0.10) | 0.05 | 0.5 | 0.053 | 0.58 | 12/5/2013 | 1.4 | 15 | | |
| 12/8 - 12/14 | 12/14/2013 | ND (<2.5) | 1.3 | 0.013 | 12/9/2013 | 6.65 | ND (<0.00025) | 0.014 | 15 | 160 | 3.7 | 40 | ND (<0.10) | 0.05 | 0.5 | 0.089 | 0.95 | 12/11/2013 | 2.1 | 22 | | |
| 12/15 - 12/21 | 12/21/2013 | ND (<2.5) | 1.3 | 0.014 | 12/16/2013 | 7.08 | ND (<0.00025) | 0.014 | 12 | 130 | 3.2 | 35 | ND (<0.10) | 0.05 | 0.5 | 0.15 | 1.6 | 12/18/2013 | 3.1 | 34 | | |
| 12/22 - 12/28 | 12/28/2013 | ND (<2.5) | 1.3 | 0.014 | 12/23/2013 | 7.22 | ND (<0.00025) | 0.010 | 19 | 210 | 3.7 | 40 | | 0.46 | 5.0 | 0.28 | 3.1 | 12/23/2013 | 3.8 | 41 | | |
| 12/29 - 1/4 | 1/4/2014 | ND (<2.5) | 1.3 | 0.014 | 12/30/2013 | 6.85 | ND (<0.00025) | 0.0075 | 14 | 150 | 3.3 | 36 | | 0.23 | 2.5 | 0.21 | 2.3 | 12/30/2013 | 1.9 | 21 | | |
| 1/5 - 1/11 | 1/11/2014 | ND (<2.5) | 1.3 | 0.014 | 1/6/2014 | 6.91 | ND (<0.00025) | 0.015 | 21 | 230 | 3.7 | 41 | | 0.17 | 1.9 | 0.26 | 2.9 | 1/8/2014 | 2.3 | 26 | | |
| 1/12 - 1/18 | 1/18/2014 | ND (<2.5) | 1.3 | 0.014 | 1/13/2014 | 7.31 | ND (<0.00025) | 0.0082 | 16 | 180 | 3.5 | 40 | | 0.25 | 2.8 | 0.21 | 2.4 | 1/15/2014 | 4.5 | 51 | 0.57 | 6.5 |
| 1/19 - 1/25 | 1/25/2014 | ND (<2.5) | 1.3 | 0.014 | 1/20/2014 | 6.72 | 0.0013 | 0.036 | 60 | 680 | 5.8 | 65 | | 0.97 | 11 | 0.42 | 4.7 | 1/22/2014 | 4.6 | 52 | | |
| 1/26 - 2/1 | 2/1/2014 | ND (<2.5) | 1.3 | 0.014 | 1/27/2014 | 6.69 | ND (<0.00025) | 0.0098 | 15 | 170 | 3.8 | 43 | | 0.48 | 5.4 | 0.28 | 3.1 | 1/29/2014 | 5.2 | 58 | | |
| 2/2 - 2/8 | 2/8/2014 | ND (<2.5) | 1.3 | 0.014 | 2/3/2014 | 6.91 | ND (<0.00025) | 0.020 | 23 | 260 | 4.0 | 45 | | 0.33 | 3.7 | 0.13 | 1.5 | 2/5/2014 | 4.6 | 52 | | |
| 2/9 - 2/15 | 2/15/2014 | ND (<2.5) | 1.3 | 0.014 | 2/10/2014 | 6.98 | ND (<0.00025) | 0.0047 | 22 | 250 | 3.0 | 34 | | 0.94 | 11 | 0.33 | 3.7 | 2/12/2014 | 2.6 | 29 | | |
| 2/16 - 2/22 | 2/22/2014 | ND (<2.5) | 1.3 | 0.015 | 2/17/2014 | 7.25 | ND (<0.00025) | 0.0052 | 22 | 260 | 4.2 | 49 | | 1.5 | 17 | 0.27 | 3.1 | 2/19/2014 | 9.9 | 110 | | |
| 2/23 - 3/1 | 3/1/2014 | ND (<2.5) | 1.3 | 0.015 | 2/24/2014 | 7.18 | ND (<0.00025) | 0.0043 | 10 | 120 | 0.30 | 3.5 | | 0.58 | 6.8 | 0.39 | 4.6 | 2/26/2014 | 3.7 | 43 | | |
| 3/2 - 3/8 | 3/8/2014 | ND (<2.5) | 1.3 | 0.013 | 3/3/2014 | 6.91 | ND (<0.00025) | 0.0064 | 16 | 170 | 3.8 | 41 | | 0.43 | 4.6 | 0.20 | 2.1 | 3/5/2014 | 2.4 3.4 | 26 40 | | |
| 3/9 - 3/15 | 3/15/2014 | ND (<2.5) | 1.3 | 0.015 | 3/10/2014 | 7.36 | ND (<0.00025) | 0.0051 | 54 13 | 630 | 9.8 | 114 | | 1.6 | 19 | 0.28 | 3.3 | 3/12/2014 | 1.0 | 40 12 | | |
| 3/16 - 3/22 3/23 - 3/29 | 3/22/2014 3/29/2014 | ND (<2.5) ND (<2.5) | 1.3 | 0.015 0.015 | 3/17/2014 3/24/2014 | 6.87 6.72 | ND (<0.00025) 0.00048 | 0.0023 0.0059 | 12 | 150 140 | 3.0 3.6 | 36 42 | | 0.19 0.33 | 2.3 3.9 | 0.18 0.18 | 2.1 2.1 | 3/19/2014 3/26/2014 | 3.7 | 44 | | |
| 3/30 - 4/5 | | ` ' | 1.3 | 0.0090 | - ' ' | 7.04 | | | 30 | 220 | 5.9 | 42 | ND (<0.10) | 0.33 | 0.36 | | | | NS | NS NS | | |
| | 4/5/2014 | ND (<2.5) | 1.3 | | 3/31/2014 | | ND (<0.00025) | 0.012 | | | | | , | | | 0.26 | 1.9 | 4/4/2014 | | | | |
| 4/6 - 4/12 | 4/12/2014 | ND (<2.5) | 1.3 | 0.0056 | 4/11/2014 | 6.61 | 0.00029 | 0.0096 | 15 | 70 | 3.4 | 15 | ND (<0.10) | 0.05 | 0.23 | 0.16 | 0.7 | 4/11/2014 | 3.4 | 15 | 0.15 | 1.6 |
| 4/13 - 4/19 | 4/19/2014 | ND (<2.5) | 1.3 | 0.015 | 4/14/2014 | 6.66 | ND (<0.00025) | 0.028 | 20 | 230 | 4.4 | 52 | ND (<0.10) | 0.05 | 0.59 | 0.22 | 2.6 | 4/16/2014 | 6.3 | 74 | 0.15 | 1.6 |
| 4/20 - 4/26 | 4/26/2014 | ND (<2.5) | 1.3 | 0.014 | 4/21/2014 | 6.62 | ND (<0.00025) | 0.012 | 15 | 170 | 3.5 | 40 | | 0.51 | 5.9 | 0.20 | 2.3 | 4/23/2014 | 2.5 | 29 57 | | |
| 4/27 - 5/3 | 5/3/2014 5/10/2014 | ND (<2.5) | 1.3 | 0.014 | 4/28/2014 | 6.62 | ND (<0.00025) | 0.012 | 17 13 | 200 | 3.7 2.7 | 43 | | 0.18 | 2.1 5.6 | 0.16 | 1.9 | 4/30/2014 | 4.9 2.8 | 32 | | |
| 5/4 - 5/10 | | ND (<2.5) | 1.3 | 0.014 | 5/5/2014 | | ND (<0.00025) | 0.0074 | | 150 | | 31 44 | | | | 0.14 | 1.6 | 5/7/2014 | | | | |
| 5/11 - 5/17 5/18 - 5/24 | 5/17/2014 5/24/2014 | ND (<2.5) | 1.3 | 0.014 0.014 | 5/12/2014 5/19/2014 | 6.62 7.06 | 0.0013 ND (<0.00025) | 0.0083 | 26 15 | 290 170 | 3.9 3.3 | 37 | | 1.1 0.99 | 12 11 | 0.39 | 4.4 3.5 | 5/14/2014 | 3.0 3.4 | 34 38 | | |
| | | ND (<2.5) | 1.3 | | | | , , | 0.012 | | | | 39 | | | | 0.31 | | 5/21/2014 | | | | |
| 5/25 - 5/31 | 5/31/2014 | ND (<2.5) | 1.3 | 0.014 | 5/27/2014 | 6.77 | ND (<0.00025) | 0.012 | 23 | 270 | 3.4 | | | 0.12 | 1.4 | 0.25 | 2.9 | 5/28/20142 | NS | NS | | |
| 6/1 - 6/7 | 6/7/2014 | ND (<2.5) | 1.3 | 0.014 | 6/2/2014 | 6.85 | ND (<0.00025) | 0.010 | 18 | 200 | 3.1 | 34 | | 1.3 | 14 | 0.52 | 5.6 | 6/4/2014 | 2.3 | 25 | | |
| 6/8 - 6/14 | 6/14/2014 | ND (<2.5) | 1.3 | 0.014 | 6/9/2014 | 6.69 | ND (<0.00025) | 0.0091 | 13 | 140 | 3.0 | 33 | | 0.11 | 1.2 | 0.040 | 0.43 | 6/11/2014 | 1.2 | 13 | | |
| 6/15 - 6/21 | 6/21/2014 | ND (<2.5) | 1.3 | 0.014 | 6/16/2014 | 6.69 | ND (<0.00025) | 0.016 | 13 | 140 | 3.7 | 41 | | 0.57 | 6.3 | 0.16 | 1.8 | 6/18/2014 | 0.86 | 10 58 | | |
| 6/22 - 6/28 | 6/28/2014 | ND (<2.5) | 1.3 | 0.013 | 6/23/2014 | 6.71 | ND (<0.00025) | 0.0062 | 10 | 110 | 2.0 | 21 | | 0.11 | 1.2 | 0.070 | 0.75 | 6/25/2014 | 5.4 | | | |
| 6/29 - 7/53 | 7/5/2014 | ND (<2.5) | 1.3 | 0.012 | 6/30/2014 | 6.50 | ND (<0.00025) | 0.017 | 29 | 280 | 4.8 | 47 | ND (<0.10) | 0.05 | 0.49 | 0.16 | 1.6 | 7/2/2014 ³ | 4.5 | 44 | | |
| 7/6 - 7/12 ³ | 7/12/2014 | ND (<2.5) | 1.3 | 0.012 | 7/8/2014 ³ | 6.77 | ND (<0.00025) | 0.0089 | 20 | 200 | 3.2 | 31 | | 0.41 | 4.0 | 0.23 | 2.3 | 7/9/20143 | 3.4 | 33 | 0.24 | 2.0 |
| 7/13 - 7/19 | 7/19/2014 | ND (<2.5) | 1.3 | 0.010 | 7/15/2014 | 6.85 | ND (<0.00025) | 0.020 | 34 | 280 | 8.3 | 69 | ND (<0.10) | 0.05 | 0.41 | 0.35 | 2.9 | 7/16/2014 | 4.5 | 37 | | |
| 7/20 - 7/26 | 7/26/2014 | ND (<2.5) | 1.3 | 0.012 | 7/21/2014 | 7.25 | ND (<0.00025) | 0.020 | 50 | 470 | 9.2 | 87 | | 0.22 | 2.1 | 0.56 | 5.3 | 7/23/2014 | 3.7 | 35 | | |
| 7/27 - 8/2 | 8/2/2014 | ND (<2.5) | 1.3 | 0.012 | 7/28/2014 | 6.65 | ND (<0.00025) | 0.014 | 23 | 220 | 6.1 | 57 | | 0.25 | 2.3 | 0.25 | 2.3 | 7/30/2014 | 5.4 | 51 | | |
| 8/3 - 8/9 | 8/9/2014 | ND (<2.5) | 1.3 | 0.013 | 8/4/2014 | 6.84 | ND (<0.00025) | 0.034 | 21 | 210 | 4.5 | 46 | | 0.23 | 2.3 | 0.16 | 1.6 | 8/6/2014 | 5.7 | 58 | | |
| 8/10 - 8/16 | 8/16/2014 | ND (<2.5) | 1.3 | 0.014 | 8/11/2014 | 6.65 | ND (<0.00025) | 0.012 | 25 | 270 | 4.4 | 48 | ND (<0.10) | 0.05 | 0.54 | 0.18 | 2.0 | 8/13/2014 | 1.8 | 20 | | |
| 8/17 - 8/23 | 8/23/2014 | ND (<2.5) | 1.3 | 0.013 | 8/18/2014 | 6.87 | ND (<0.00025) | 0.0064 | 14 | 150 | 2.9 | 31 | | 0.26 | 2.8 | 0.22 | 2.4 | 8/20/2014 | 2.8 | 30 | | |
| 8/24 - 8/30 | 8/30/2014 | ND (<2.5) | 1.3 | 0.014 | 8/25/2014 | 6.83 | ND (<0.00025) | 0.0059 | 20 | 220 | 3.7 | 40 | | 0.49 | 5.4 | 0.21 | 2.3 | 8/27/2014 | 2.3 | 25 | | |
| 8/31 - 9/6 | 9/6/2014 | ND (<2.5) | 1.3 | 0.014 | 9/2/2014 | 6.71 | ND (<0.00025) | 0.017 | 31 | 340 | 5.4 | 59 | | 0.11 | 1.2 | 0.096 | 1.0 | 9/3/2014 | 1.8 | 20 | | |
| 9/7 - 9/13 | 9/13/2014 | ND (<2.5) | 1.3 | 0.010 | 9/8/2014 | 6.69 | ND (<0.00025) | 0.017 | 12 | 100 | 3.4 | 28 | | 0.21 | 1.7 | 0.065 | 0.53 | 9/9/2014 | 1.4 | 11 | | |
| 9/14 - 9/20 | 9/20/2014 | ND (<2.5) | 1.3 | 0.012 | 9/15/2014 | 6.84 | ND (<0.00025) | 0.021 | 26 | 260 | 4.6 | 45 | | 0.12 | 1.2 | 0.022 | 0.22 | 9/17/2014 | 3.8 | 37 | | |
| 9/21 - 9/27 | 9/27/2014 | NA | NA | NA | 9/22/2014 | 6.68 | ND (<0.00025) | 0.0065 | 24 | 240 | 4.6 | 46 | ND (<0.10) | 0.05 | 0.50 | 3.7 | 37 | 9/24/2014 | NA | NA | | |
| | | | | | 9/29/2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | I | | | | |

Note: All analytical responsibilities are performed by TestAmerica Laboratories, Inc. (TestAmerica) in Irvine, California, unless otherwise indicated.

¹ During this time period, treated effluent was diverted to GW-11 rather than discharged to the Las Vegas Wash. As a result, the weekly BOD ₅ (inhibited) sample for the week of March 31, 2014 was not collected.

NA = Not Available To Date

NS = No Sample

ND = Not Detected above laboratory reporting limit; concentration in adjacent cell to right is one-half the reporting limit (per Permit condition)

-- = Analyte detected; see column adjacent to right

Last Updated: October 3, 2014

 $^{^2}$ The effluent BOD $_5$ (inhibited) sample for the week of May 26, 2014 was invalidated due to a power outage at the laboratory.

³ On several days during this period, the effluent flow meter was not working properly. Mass loading values (lbs/day) were calculated using influent flow values in place of effluent flow values.

Attachment B Equipment Tracking Form

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|--|---------------------|---------|---|
| | | Main Plant Equipment | | | |
| 1 | | Seep Wells and Lift Station 1 | | | |
| 1.01 | | Seep Well Field, 9 wells | Running | Х | All 9 wells in operation |
| 1.02 | | Lift Station 1 Lift Pump A | Running | Х | |
| 1.03 | | Lift Station 1 Lift Pump B | Standby | Х | |
| 2 | | Athens Road Wells and Lift Station 3 | | | |
| 2.01 | | Athens Road Well Field, 9 wells | Running | Х | All 9 wells in operation |
| 2.02 | | Lift Station 3 Lift Pump A | Standby | Х | |
| 2.03 | | Lift Station 3 Lift Pump B | Running | Х | |
| 3 | | Lift Station 2 and Transmission Piplines | | | |
| 3.01 | | Influent Pipline | In operation | Х | |
| 3.02 | | Effluent Pipeline | Running | Х | |
| 3.03 | | Lift Station 2 Lift Pump A | Running | Х | |
| 3.04 | | Lift Station 2 Lift Pump B | Standby | Х | |
| 4 | | Interceptor Wells and Cr Treatment Plant | | | |
| 4.01 | | IWF Well Field, 30 wells | Running | Χ | 27 wells online |
| 4.02 | | Ferrous Sulfate Feed System | Running | Χ | Replaced broken injection quill with check valve. |
| 4.03 | | Polymer Feed System | Running | Χ | |
| 4.04 | | Clarifier | In operation | Χ | |
| 4.05 | | Filter Press | Running | Χ | Replaced O-rings on plates |
| 4.06 | | GWTP Effluent Tank | In operation | Χ | |
| 4.07 | | Interceptor Booster Pump A | Standby | Χ | |
| 4.08 | | Interceptor Booster Pump B | Running | Χ | |
| 5 | | Equalization Area and GW-11 Pond | | | |
| 5.01 | PID10A | | · · | Х | |
| 5.02 | PID10A | Pond Water Pump - P101A | | Х | |
| 5.03 | PID10A | Pond Water Pump - P101B | | Х | |
| 5.04 | PID10A | Equalization Tanks | • | Х | |
| 5.05 | PID10A | Raw Water Feed Pump - P102A | Running | Х | |
| 5.06 | PID10A | Raw Water Feed Pump - P102B | Standby | Х | Motor/pump in shop being worked on. 2.5 weeks out/ seal ordered |

¹Status Codes Running - Unit is in operation

Standby - Spare or duplicate, not currently in operation

Maintenance - Out of service for maintenance

| Su Syst | | P&ID | Description | Status ¹ | Checked | Notes |
|------------|------|--------|-----------------------------|---------------------|---------|-------|
| | 5.07 | PID10B | Carbon Absorber - LGAC 201A | Running | Χ | |
| | 5.08 | PID10B | Carbon Absorber - LGAC 201B | Running | Χ | |
| | 5.09 | PID10B | Carbon Absorber - LGAC 201C | Standby | Χ | |

¹Status 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

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|---|---------------------|---------|-------|
| 6 | | First Stage FBRs A, 1 & 2 | | | |
| 6.01 | PID14 | FBR A | Running | Х | |
| 6.02 | PID14 | Separator Tank - 1401 | Running | Х | |
| 6.03 | PID14 | Media Return Pump - P 1401 | Running | X | |
| 6.04 | PID14 | | Standby | Х | |
| 6.05 | PID01A | P1401B | Running | Х | |
| 6.06 | PID01A | FBR 1 | Running | Х | |
| 6.07 | PID02A | FBR 2 | Running | Х | |
| 6.08 | PID01A | First Stage Separator Tank - T2011 | Running | Х | |
| 6.09 | PID01A | Media Return Pump - P2011 | Running | Х | |
| 6.10 | PID01A | First Stage FBR Pump - P1011 | Standby | Х | |
| 6.11 | PID01A | First Stage FBR Pump - P1012 | Running | Х | |
| 6.12 | PID01A | First Stage FRB Pump - P101A | Running | Х | |
| 6.13 | PID07A | FBR A pH Feed Pump - P71A | Standby | Х | |
| 6.14 | PID07A | FBR 1 pH Feed Pump - P711 | Standby | Х | |
| 6.15 | PID07A | FBR 2 pH Feed Pump - P712 | Standby | Х | |
| 6.16 | PID07A | FBR A Nutrient (Urea) Feed Pump - P72A | Off | Х | |
| 6.17 | PID07A | FBR 1 Nutrient (Urea) Feed Pump - P721 | Off | Х | |
| 6.18 | PID07A | FBR 2 Nutrient (Urea) Feed Pump - P722 | Off | Х | |
| 6.19 | PID15 | FBR A Nutrient (Phos Acid) Feed Pump - P1520A | Running | Х | |
| 6.20 | PID15 | FBR 1 Nutrient (Phos Acid) Feed Pump - P1521 | Running | Х | |
| 6.21 | PID15 | FBR 2 Nutrient (Phos Acid) Feed Pump - P1522 | Running | Х | |
| 6.22 | PID07B | FBR A Electron Donor Assembly Pump - P73A | Running | Х | |
| 6.23 | PID07B | FBR 1 Electron Donor Assembly Pump - P731 | Running | Х | |
| 6.24 | PID07B | FBR 2 Electron Donor Assembly Pump - P732 | Running | Х | |

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Maintenance - Out of service for maintenance

Off - Not currently needed for use, but can be placed in service

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|--|---------------------|---------|--|
| 7 | | First Stage FBRs 3 & 4 | | | |
| 7.01 | PID01B | FBR 3 | Off | Х | |
| 7.02 | PID01B | FBR 4 | Off | Х | |
| 7.03 | PID02B | First Stage Separator Tank - T2012 | Off | Х | |
| 7.04 | PID01B | Media Return Pump - P2012 | Off | Х | |
| 7.05 | PID01B | First Stage FBR Pump - P1013 | Off | Х | |
| 7.06 | PID01B | First Stage FRB Pump - P1014 | Off | Х | |
| 7.07 | PID01B | First Stage FBR Pump - P102A | Off | Х | |
| 7.08 | PID07A | FBR 3 pH Feed Pump - P713 | Off | Х | |
| 7.09 | PID07A | FBR 4 pH Feed Pump - P714 | Off | Х | |
| 7.10 | PID07A | FBR 3 Nutrient (Urea) Feed Pump - P723 | Off | Х | |
| 7.11 | PID07A | FBR 4 Nutrient (Urea) Feed Pump - P 724 | Off | Х | |
| 7.12 | PID15 | FBR 3 Nutrient (Phos Acid) Feed Pump - P1523 | Off | Х | |
| 7.13 | PID15 | FBR 4 Nutrient (Phos Acid) Feed Pump - P1524 | Off | Х | |
| 7.14 | PID07B | FBR 3 Electron Donor Assembly Pump - P733 | Off | Х | |
| 7.15 | PID07B | FBR 4 Electron Donor Assembly Pump - P734 | Off | Х | |
| 8 | | Second Stage FBRs 5 & 6 | | | |
| 8.01 | PID03A | FBR 5 | Off | Х | Working on lateral and nozzle removal. |
| 8.02 | PID03A | FBR 6 | Off | Х | |
| 8.03 | PID03C | Second Stage Separator Tank - T3011 | Off | Х | |
| 8.04 | PID03A | Media Return Pump - P3011 | Off | Х | |
| 8.05 | PID03A | Second Stage FBR Pump - P3015 | Off | Х | |
| 8.06 | PID03A | Second Stage FBR Pump - P3016 | Off | Х | |
| 8.07 | PID03A | Second Stage FBR Pump - P301A | Off | Х | |
| 8.08 | PID07A | FBR 5 pH Feed Pump - P715 | | Х | |
| 8.09 | PID07A | FBR 6 pH Feed Pump - P716 | | Х | |
| 8.1 | PID07A | FBR 5 Nutrient (Urea) Feed Pump - P725 | | Х | |
| 8.11 | PID07A | FBR 6 Nutrient (Urea) Feed Pump - P726 | | Х | |
| 8.12 | PID07B | FBR 5 Electron Donor Assembly Pump - P735 | | Х | |
| 8.13 | PID07B | FBR 6 Electron Donor Assembly Pump - P736 | Off | Х | |

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Standby - Spare or duplicate, not currently in operation

Maintenance - Out of service for maintenance

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|---|---------------------|---------|----------------------------|
| 9 | | Second Stage FBRs 7 & 8 | | | |
| 9.01 | PID03B | | Running | Х | |
| 9.02 | PID03B | FBR 8 | Running | Х | |
| 9.03 | PID03D | Second Stage Separator Tank - T3012 | Running | Х | |
| 9.04 | PID03B | Media Return Pump - P3012 | Maintenance | Х | Belt needs to be replaced. |
| 9.05 | PID03B | Second Stage FBR Pump - P3017 | Standby | Х | |
| 9.06 | PID03B | Second Stage FBR Pump - P3018 | Running | Х | |
| 9.07 | PID03B | Second Stage FBR Pump - P302A | Running | Х | |
| 9.08 | PID07A | FBR 7 pH Feed Pump - P717 | Standby | Х | |
| 9.09 | PID07A | FBR 8 pH Feed Pump - P718 | Standby | Х | |
| 9.10 | PID07A | FBR 7 Nutrient (Urea) Feed Pump - P727 | Off | Х | |
| 9.11 | PID07A | FBR 8 Nutrient (Urea) Feed Pump - P728 | Off | Х | |
| 9.12 | PID07B | FBR 7 Electron Donor Assembly Pump - P737 | Running | Х | |
| 9.13 | PID07B | FBR 8 Electron Donor Assembly Pump - P738 | Running | Х | |
| 10 | | Aeration and DAF System | | | |
| 10.01 | PID04 | Aeration Tank | | Х | |
| 10.02 | PID04 | Aeration Blower - B401 | Running | Х | |
| 10.03 | PID04 | Biofilter | In operation | Х | |
| 10.04 | PID04 | Nutrient Solution | Running | Х | |
| 10.05 | PID04 | Biofilter Sump | Running | Х | |
| 10.06 | PID04 | Nutrient Pump - P401 | Running | Х | |
| 10.07 | PID04 | Biofilter Sump Pump - P402A | Standby | Х | |
| 10.08 | PID04 | Biofilter Sump Pump - P402B | Off | Х | Only one pump in place |
| 10.09 | PID04 | Biofilter Blower | Running | Х | |
| 10.10 | PID05 | DAF Pressure Tanks | In operation | Х | |
| 10.11 | PID05 | DAF Vessel - D501 | Running | Х | |
| 10.12 | PID05 | DAF Pressure Pump - P501 | Running | Х | |
| 10.13 | PID05 | DAF Float Pump - P502 | Running | Х | |
| 10.14 | PID05 | DAF Vessel - D551 | Running | Х | |
| 10.15 | PID05 | DAF Pressure Pump - P551 | Running | Х | |
| 10.16 | PID05 | DAF Float Pump - P552 | Running | Х | |

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Standby - Spare or duplicate, not currently in operation

Maintenance - Out of service for maintenance

10-2-2014 GWETS - Equipment Tracking Form

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|-------|----------------------|---------------------|---------|-------|
| 10.17 | PID05 | Screw Conveyer Drive | Standby | Χ | |
| 10.18 | PID05 | Skimmer Drive | Running | Х | |

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10-2-2014 GWETS - Equipment Tracking Form

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|--|---------------------|---------|--|
| 11 | | Pumping System (Old Effluent) | | | |
| 11.01 | PID06 | Effluent Tank 601 | In operation | Х | |
| 11.02 | PID06 | Effluent Pump - P601 | Maintenance | Х | New mechanical seal being ordered. |
| 11.03 | PID06 | Effluent Pump - P602 | Running | Х | |
| 12 | | Sand Filter System | | | |
| 12.01 | PID17 | Sand Filter | Running | Х | Adjusted weirs and unclogging jammed airlifts. |
| 12.02 | PID17 | Filter Reject Tank | In operation | Х | New positioner being ordered |
| 12.03 | PID17 | Filter Reject Pump - P1701A | Running | Х | |
| 12.04 | PID17 | Filter Reject Pump - P1701B | Standby | Х | |
| 13 | | Effluent Tank and Pumping | | | |
| 13.01 | PID10C | UV Effluent Tank | Running | Х | |
| 13.02 | PID10C | Effluent Booster Pump - P1302A | | X | |
| 13.03 | PID10C | Effluent Booster Pump - P1302B | Standby | Х | |
| 14 | | Solids Collection and Pressing System | | | |
| 14.01 | PID16 | 5 9 | | Х | |
| 14.02 | PID16 | , , , , , , , , , , , , , , , , , , , | | Х | |
| 14.03 | PID16 | | · | Х | |
| 14.04 | PID09 | <u> </u> | - | Х | |
| 14.05 | PID09 | · | | Х | |
| 14.06 | PID09 | , | | Х | Replacement kits on order |
| 14.07 | PID09 | West Press | | Х | |
| 14.08 | PID09 | | | Х | |
| 14.09 | PID09 | | | Х | |
| 14.10 | PID09 | Filtrate Tank Effluent (recycle) Pump - P903 | Running | Х | |

Standby - Spare or duplicate, not currently in operation

Maintenance - Out of service for maintenance

¹Status Codes Running - Unit is in operation

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|--------|---|---------------------|---------|---|
| | | Chemical Systems | | | |
| 15 | | Electron Donor System | | | |
| 15.01 | PID07B | Electron Donor Tank | In operation | Χ | |
| 15.02 | PID07B | Booster Pump P739A | Running | Χ | |
| 15.03 | PID07B | Booster Pump P739B | Standby | Χ | |
| 17 | PID07C | Micro Nutrient System | In operation | Х | |
| 18 | PID07C | Hydrogen Peroxide System | In operation | Х | |
| 19 | PID07C | De-Foam System | In operation | Х | |
| 20 | | Nutrient (Phosphoric Acid) System (Tank only - pumps included in FBRs) | In operation | Х | |
| 21 | DIDOZA | Nutrient (Urea) System (Tank only - pumps included in FBRs) | In operation | Х | |
| 22 | PID07A | pH System (Tank and effluent pH feed pump only - other pumps included in FBRs) | In operation | Х | New feed line for effluent feed needs to be replaced. |
| 23 | PID07C | Ferric Chloride System | In operation | Χ | |
| 24 | PID07B | Polymer Systems - DAF | In operation | Х | Replaced new check ball at injection point. |
| 25 | PID09 | Polymer System - Solids Dewatering (2 tanks, 2 centrifugal pumps, mixer, volumetric feeder) | In operation | Х | |

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Maintenance - Out of service for maintenance

| Sub- System | P&ID | Description | Status ¹ | Checked | Notes |
|----------------|-------|---|---------------------|---------|---|
| | | Utility Systems | | | |
| 26 | | Compressed Air System | | | |
| 26.01 | PID08 | West Compressor | Running | Х | |
| 26.02 | PID08 | East Compressor | Running | Х | |
| 26.03 | PID08 | O2 Compressor | Running | Х | |
| 26.04 | PID08 | Compressed Air Receiver Tank | In operation | Х | |
| 26.05 | PID08 | Air Dryer | Running | Х | |
| 26.06 | PID08 | Oil Removal Filter | In operation | Х | |
| 26.07 | PID08 | Particulate Filter | In operation | Χ | |
| 27 | PID16 | Oxygen System | In operation | Х | |
| 28 | | GWETS Plant Controls/ Siemens Controls | In operation | Х | Panel veiw installed. Not operational yet. |
| 29 | | Well Control System/ Allen Bradley Controls | In operation | Х | Computer sent to Matrix for repairs. |
| 30 | | MCC FBR Pad | In operation | Х | |
| 31 | | MCC in D-1 | In operation | Х | |
| 32 | | MCC in EQ area | In operation | Х | |
| | | Miscellanous Systems | | | |
| 33 | | Operations Office/Network | In operation | Х | |
| 34 | | Laboratory Analyzers | In operation | Х | IC repaired. New board installed. |
| 35 | | Security Systems | In operation | Х | |
| | | Shelf Spares | | | |
| | | Media Return Pump Rebuid Kit | In stock | Х | New suction and discharge disks for the 3" double disk pumps on |
| | | pH Feed Pump | In stock | Х | |
| | | Nutrient Feed Pump | In stock | Х | |
| | | Electron Donor Feed Pump | In stock | Х | |
| | | Phosphoric Acid Feed Pump | In stock | Х | |
| | | Interceptor Well Pumps (4 each) | In stock | Х | |
| | | Seep Well Pump (1 each, same as Athens so total of 2) | In stock | X | |
| | | Athens Road Well Pump (1 each, same as Seep so total of 2) | In stock | Х | |

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Standby - Spare or duplicate, not currently in operation

Maintenance - Out of service for maintenance