

### Significant Events for December 2014

## Summary of General Plant Conditions

- The plant was shut down to remove the two LCA vessels from the treatment process. The discharge from the former LCA feed pumps was re-piped directly to the TW tanks. Photos of the project were put on the S drive
- The flow to IW-2 was further restricted (to 24 gallons per minute [gpm] from 27 gpm) as the well was at overflow level due to poor infiltration. The gpm flow was later increased when the well was better able to accept water.
- INJ P2 was removed from service and the pump disconnected. The mechanical seal appears to have worn unevenly and seal sleeve appears seized. There is a lot of corrosion on the pump gearbox and adapter head.
- Operating at lower discharge pressures, only one LCA pump is required online.

### Water Treated and Discharged-

Year start	June 1, 2014	6:00 am - PD meter reading	832,392,983
Period start	December 1, 2014	6:00 am - PD meter reading	904,915,448
Period end	January 1, 2015	6:00 am - PD meter reading	915,610,380
Days in Period	31 days		
Plant Down-Time	2:20 hours for maintenance activities		
	50:50 hours to re-pipe the LCA vessels		

Plant Effluent (magnetic meter)	For December	For year
Volume Discharged (Gal)	10,694,932	83,217,397
Average Flow (GPM)	240	270
Average Flow (GPD)	344,998	388,866

Extracted Water - Dec.	EX-1	EX-2	EX-3		Total
Volume	2,403,000	0	6,436,000	<b>gallons</b>	8,839,000
Flow	54	0	144	<b>gpm</b>	198

Extraction well pumps are currently on 24 hours per day

Injection System	IW-1	IG-1	IW-2	IW-3	IG-3	IW-4
Gallons Discharged To:	918.871	2,321,154	940,498	3,153,204	864,128	3,242,049
Discharge Rate (gpm)	20.6	52.0	21.1	70.6	19.4	72.6
Dec. PD Volume	11,439,904	<b>Gallons</b>				
Dec. PD Flow	369,029	<b>GPD</b>				
Dec. PD Flow	256.3	<b>GPM</b>				

**Plant Downtime** – there was 53 hours of plant downtime in December for various maintenance tasks including bypassing the LCA feed pumps.

### **Summary of Significant Maintenance and Project Activities**

- General maintenance activities continued, including: outdoor clean up tasks, plant housekeeping, system inspections and system monitoring.
- Grounds and well maintenance tasks and inspections continued.
- The process pumps were rotated from 1&2 to 1&3 to 2&3
- The outdoor tank level monitors were insulated and covered and the heat trace thermostats were actuated
- The plant was cycled out to air sparge the LCA vessels in order to alleviate the high differential pressures.
- The DTB sounding probe was freed from IW-4
- The sludge tank was emptied through the filter press
- The plant was shut down to re-pipe the discharge of the LCA 'feed' pumps
- Filter bags were attached to the bottom drains on the LCA vessels. The vessels were drained.
- The 6" BF valve from the LCA vessel influent lines was installed at the influent of INJ P2
- INJ P2 was pulled to check the seal. There is a lot of corrosion present.
- A concrete road divider was pushed away from the well pipe of EW-9D
- Plant Maintenance was completed on the AS blower and the air compressor
- Support brackets were reinstalled on the 6" LCA discharge line
- Samples of the carbon in the LCA vessels were collected and shipped to GEL for analysis

### **Maintenance Logs**

In use:        Plant Operators Daily Log Book **CL-50**  
                 Plant Supervisors Daily Log Book **CL-48**  
                 Sampling and Field Support Log **CL-37**  
                 Well Redevelopment and Support Log **CL-28**  
                 Misc. Projects Field Notebook **CL-47**  
On File:        CL-39, 41, 42, 44, 45, 46, 49 at Claremont

The remaining logbooks are at HRP-NY for archiving

### **HRP personnel on site and activities**

- The plant operators maintained the plant throughout the period.
- Jennifer Kotch and Nancy Garry oversee the project from the NY office.

### **NYSDEC personnel, sub-contractors, and other visitors on site**

- TA-NY was in 12/18 to pick up the GW samples
- TOB Lab was in to pick up split GW samples 12/17
- TA-NY was in 12/30 to pick up the PD samples

### **Deliveries**

- Mail was delivered 4 x
- UPS delivered the Ryan Herco order 12/31

### **Safety Issues**

- A comprehensive site safety inspection was completed in December 12/11
- The LCA feed pumps were locked out for maintenance tasks
- INJ P2 was locked and tagged out and remains so.

### **Upcoming activities and Plant Issues**

- Evaluate/Repair the seal leak on INJ P2 -
- Secure pump level controls in floor drain sump
- Replace blower bearings
- Clean impellers on INJ pumps - may occur during the LCA plant shut down
- The remaining fixtures are to be removed from the LCA vessels
- The LCA vessels are to be emptied of carbon
- The LCA vessels are to be disposed of.

### **Plant Documents**

- A generic chain of custody document was created for extraordinary sampling tasks

### **System Documentation**

- The monthly report for November was submitted along with associated documents. The files were scanned and saved to the server and other shared file folders.
- Plant truck usage report for December was submitted

### **Summary of Site Sampling Activities**

- The water levels of the monitoring well system was recorded 12/1
- The quarterly GW samples were collected 12/15 and 16 and shipped to TA-Edison for organic analysis 12/18
- The DTW level was re-measured on EW-2A (from -102 ft to -94.8 ft)
- The Nov. PW analytical data was uploaded to EQuIS
- The monthly PD samples were collected 12/30 and shipped to TA-Edison for organic analysis.
- The carbon in the LCA vessels were sampled 12/30 and shipped to Gel labs for various radioactivity scans.

**Additional Data Recorded**

- The plant air was monitored and readings were recorded weekly
- The plant sound levels were recorded 12/1, 12/11
- The utility meter readings were recorded weekly
- Extraction well packer pressures were recorded frequently, (see table below)
- The process motor amp load readings were recorded 12/26
- Plant discharge pH and temperature readings were recorded weekly.
- The injection well DTW and DTB readings were recorded 12/20
- The infiltration gallery DTW and flow meter readings were recorded 12/29

**Extraction well Packer pressures**

	EX-1 (>25psi)	EX-2 (>35 psi)
12/1	37	46
12/4	36	45
12/11	33	45
12/19	31	44
12/29	28	44

**Bulk Waste Activities**

- The LCA carbon vessels were sampled

**Summary of Grounds Maintenance and Events (including Truck)**

- The in-house monthly truck inspection was completed 12/26
- The paved areas were cleared of wind-blown debris
- The plant access gates and fencing were maintained.

**Off-site Activities**

- HD run for maintenance supplies
- Fed Ex run to drop off carbon samples

**Purchases**

- HD - insulation - expensed
- Ryan Herco - 4" blank flanges - PO