CLAREMONT POLYCHEMICAL SUPERFUND SITE Groundwater Treatment System Old Bethpage, New York

MONTHLY REPORT of the Operations & Maintenance Activities During January 2012

Prepared for the:

New York State Department of Environmental Conservation

Prepared by:

HRP Associates, Inc 197 Scott Swamp Road Farmington, CT 06032

Prepared: February 3, 2012

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ACRONYMS AND ABBREVIATIONS

AS air stripping
ASF air stripper feed
CA carbon adsorber

CLP contract laboratories program

DOSRs daily operations summary reports

DTW depth to water gpd gallons per day gpm gallons per minute

GW groundwater

GWTP groundwater treatment plant

GWTS groundwater extraction, treatment, and reinjection system

HCl hydrochloric acid

HMI human-machine interface

HRP Associates, Inc.

HVAC heating, ventilation, and air conditioning

IG infiltration gallery
IW injection well

LGAC Liquid phase granular activated carbon

LTRA Long Term Response Action

MCC motor control cabinet

MCP master (main) control panel

NYSDEC New York State Department of Environmental Conservation

O&M operation and maintenance

PD plant discharge

PID photo ionization detector

PLC programmable logic controller

PW process water

SAIC Science Applications International Corporation

SAP sampling and analysis plan
SOP standard operating procedure
SSHP site safety and health plan

USACE United States Army Corps of Engineers
VGAC vapor-phase granular activated carbon

VFD variable frequency drive VOCs volatile organic compounds

1.0 OPERATION AND MAINTENANCE ACTIVITIES

HRP Associates, Inc. (HRP) continued its daily operation and maintenance (O&M) of the Claremont Polychemical Superfund Site and its groundwater treatment system (GWTS) for January 2012. This period is defined as 0600 hours, January 1, 2012, through 0600 hours, February 1, 2012. O&M conducted during this reporting period was performed in accordance with the site O&M Manual.

The system operated for 31 days in the January reporting period. The plant experienced 1550 minutes of downtime when the plant was shut down to make repairs to the injection pump discharge piping. The injection pumps were shut off for an additional 39 minutes to replace a motor-pump coupling.

Each workday morning, readings of key process parameters are recorded. These readings are used to monitor the plant's performance and as a basis for adjustments to the plant operations. These records (Daily Data Logs) are kept on-file at the plant.

1.1 Daily Operations Summary Reports

The daily operation of the GWTS is documented in the Daily Operations Summary Reports (DOSR). The DOSRs include a summary of the daily O&M activities and are based on the daily operating logs and worksheets. The DOSR and the daily worksheets are kept on file at the plant.

1.2 Summary of Maintenance Activities

Maintenance of the treatment system and associated equipment is performed in accordance with the Claremont Groundwater Treatment System O&M Manual. Routine activities and equipment function tests completed during this reporting period are summarized in the Monthly Maintenance Log. This report is electronically filed and is available for review.

System maintenance incorporates the equipment manufacturers' recommendations, operations experience, and good engineering and maintenance practices. A detailed accounting of daily operation and maintenance activities is provided in the plant operator's daily logbook, the site supervisor's daily logbook, the operator's daily activities summary reports, and the site supervisor's daily plant activity notes. These documents are filed on-site.

Significant maintenance activities completed during this reporting period included the following:

- Scheduled routine monthly tasks were completed and included motor amp load readings, injection well (IW) depth soundings, IW falling head tests, valve function tests, comprehensive site inspections, and infiltration gallery readings.
- Outdoor site maintenance was performed as needed. This included various winterizing tasks.
- The process pumps were rotated (two on-line, one off) four times during this period as part of the preventive maintenance task.

- The process pH probes were cleaned, inspected, calibrated, and adjusted, as necessary.
- The screens on the settling tanks were cleaned almost daily by backwashing with compressed air.
- The mechanical seal was replaced on INF P1. The pump was returned to service.
- The well head cover locks were cleaned and lubricated.
- The sump pump float switches were reset and tested.
- The M-8 pump was disassembled, cleaned and rebuilt.
- Perimeter fence warning signs were re-secured as needed.
- The tank discharge valves on both treated water tanks were replaced.
- The leaking section of INJ P2 discharge piping was repaired and reinstalled.
- Heat tracing and insulation were applied to the exposed section of the sump pump discharge pipe.
- The motor-pump transmission coupling was replaced on INJ P2

2.0 MAINTENANCE LOGS

The following operating logbooks are currently in use:

- Site Supervisor's Daily Log CL-41
- Plant Operators Daily Log CL-42

Except for the above and log book Nos. 36, 39, and 40, all the system log books were sent to SAIC Harrisburg to be copied into the Project Archives. They are to be returned and kept on file at the GWTP where they will be available for detailed review. All of the logbooks are identified on a master logbook inventory control file and are routinely checked as part of the site quality control program.

See the listing at the end of this document for the location of referenced documents, logs and worksheets.

3.0 TECHNICAL SUPPORT ACTIVITIES

3.1 HRP Personnel

No HRP personnel were on site at Claremont in January but several ongoing projects continue to be coordinated through the Farmington Office.

3.2 Sub-contractors and Manufacturing Representatives

No contractors or reps were at the facility in January.

3.3 Deliveries

- Mail was delivered on 7 occasions
- Federal Express delivered tax documents from HRP.
- Federal Express delivered the Photocircuits' gate key.

• UPS delivered PEP parts order

3.4 Visitors

There were no other visitors to the site

4.0 HEALTH AND SAFETY

Work at the Claremont Polychemical groundwater treatment plant (GWTP) was conducted in accordance with the approved Site Safety and Health Plan (SSHP). Site safety inspections were performed daily and the reports are filed on-site. In addition to the daily safety inspections, comprehensive safety inspections are routinely performed. These worksheets are also on file.

No safety incidents or accidents occurred during this January 2012 period.

5.0 PLANNED ACTIVITIES AND SCHEDULES

The status of project work and significant corrective maintenance activities is updated on a monthly basis. This Activities Schedule was last updated January 26 and is filed on-site.

Separate tentative schedules for equipment maintenance and sampling events are shown in the O&M Manual and the Sampling and Analysis Plan (SAP).

6.0 MONITORING WELL WATER ELEVATIONS

The water level elevations and water quality data for the well system was last updated after the November Process Water sampling event. This updated database is available for review. The table will be updated after the next groundwater sampling event is completed.

7.0 TREATMENT SYSTEM FLOWS

The volume of treated water discharged by the treatment plant to the injection well field is determined daily from readings of the magnetic flow meter on the plant effluent line. A summary of these meter readings is provided in Table 7-1. The total volume of treated water discharged in January, as measured from 0600 hours on January 1, 2011, to 0600 hours on February 1, 2012, was 15,419,270 gallons. This volume is approximately 103 percent of the monthly targeted treatment goal. The cumulative amount of treated water for this operating year (June 1, 2011 to present) is 125,452,566 gallons. This is approximately 6 percent above the targeted goal for water to be treated. A graphic representation of the daily system flows are provided in Figure 14-1. (Targeted goals are based on a treated water discharge rate of 335 gpm.)

In January, the plant discharge flow averaged 345 gallons per minute (gpm) and 497,396 gallons per day (gpd).

The flow monitoring units for the individual IW systems are fully functioning. This allows for reading the flow rate and volume discharged to each well system. The relative flows for January are indicated below:

| Injection Well System | Flow Average (gpm) | Volume Discharged (gallons) |
|-----------------------|--------------------|--------------------------------|
| IW-1 | 92 | 4,106,701 |
| IW-2 | 77 | 3,446,175 |
| IW-3 | 111 | 4,957,182 |
| IW-4 | 74 | 3,325,276 |
| System | 355 | 15,835,335 |

Flow to infiltration galleries IG-1 and IG-3 is restricted so that flow to IW-1 and IW-3 is maximized. Both galleries are draining adequately. The plant's effluent discharge flow is maximized and is limited by injection pump system capacity.

8.0 CHEMICAL CONSUMPTION

Currently, the four chemical feed systems are offline, and their future use is not anticipated. All systems have been tested and are operational. Currently, the chemical feed tanks and feed tubing contain water.

Following is the inventory of the bulk chemicals at the plant:

| | Inventory | | | | |
|-------------------------|-------------------|---------------------|--|--|--|
| Chemical | No. of Containers | Container Type/Size | | | |
| Caustic | 7 | 55-gallon drum | | | |
| Hydrochloric Acid (HCl) | 1 | 55-gallon drum | | | |

| Citric Acid | 1 | 55-gallon drum, |
|-------------|---|-----------------|
| | | (~200 lbs.) |

9.0 CARBON SYSTEMS

9.1 Aqueous-Phase Carbon

The presence of volatile or semi volatile organic compounds have not been detected in the effluent streams of the liquid-phase Carbon Adsorber (LCA) vessels. The influent and effluent streams of the vessels continue to be monitored on a quarterly basis.

Both carbon adsorber vessels were last backwashed in December. As part of the daily monitoring, the differential pressures across the vessels are recorded. The differential pressures are stable.

While carbon is discharged during backwash operations, no carbon has been added to the vessels.

9.2 Vapor-Phase Carbon

Two vapor-phase Carbon Adsorber vessels (VCA) are available for the off gas treatment of the air stripping (AS) stream. Currently, VCA-1 is online. VCA-2 is offline and ready for service. Monitoring of VOCs in the influent and effluent air stream of the active vessel is performed weekly with a photo-ionization detector (PID). VOCs have not been detected in the effluent air stream during these weekly monitoring events.

No spent vapor-phase carbon was generated during this period, and no carbon was added to the vessels.

10.0 WASTE DISPOSAL

- No hazardous waste was generated or disposed of during this reporting period.
- Eleven full drums and one partially filled drum of nonhazardous carbon sludge cake are on-site.
- No non-hazardous sludge was disposed of in January.
- The eight previously shipped and returned suspect drums are awaiting disposition.
 SAIC continues to work on securing a suitable TSD (treatment-storage-disposal) facility.

11.0 MONTHLY DISCHARGE MONITORING REPORT

The plant is currently operating under an equivalency permit from the New York State Department of Environmental Conservation (NYSDEC). While this permit requires periodic submittal of discharge monitoring results, monthly discharge monitoring reporting is not required. Monitoring data will be provided to the NYSDEC upon request.

A letter requesting an extension of the authorization to discharge treated groundwater to the groundwater aquifer was submitted to Mr. Brian Baker of the NYSDEC Division of Water. The response and permit extension are pending.

12.0 OTHER OPERATIONS, MAINTENANCE, OR MANAGEMENT ISSUES

NYSDEC has authorized the use of passive diffusion bags (PDB) for groundwater sampling. Once the bags are installed, the next groundwater sampling event will be scheduled.

The output of influent pump 1 continues to drift as the VFD keeps the pump in the ramping mode.

The Variable Frequency Drive (VFD) for air stripper feed pump 2 continues to give earth fault errors. When active, P2 is operated through the VFD of the off-line pump.

The disposition of 8 drums of 'non-hazardous' waste is pending SAIC procuring suitable TSD facility.

Injection well 2 is starting to back up and flow to it has been restricted

Several other ongoing plant-wide issues include:

- Determine long term plan for process pump check valves.
- Repair leak in injection pump discharge manifold.
- Replace bathroom fan.
- Replace level transducer for IW-2
- Update plant documents as necessary
- Complete February's PW sampling task.
- Schedule quarterly GW sampling task
- Repair leak on LCA vessel 2
- Replace seals on snow plow hydraulic pump

13.0 PLANT DOCUMENTS

Procedures and standard forms are written, reviewed, and revised as needed. In January:

- Form-008 Daily Data Log revised to rev. K
- Form-009 Daily Site Inspection revised to rev. E
- Form-029 Monthly Truck Inspection revised to rev. C
- SOP Manual administrative documents were updated.

14.0 TREATMENT PLANT AND WELL FIELD MONITORING RESULTS

The Claremont Polychemical GWTS is monitored through the analysis of off-site laboratory analytical data and on-site field data.

14.1 Off-site Analytical Data Results

Monthly plant discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater (GW) samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. January's sampling activities included:

- The January PD samples were shipped 1/11 to TestAmerica-Edison for organic analysis.
- The February quarterly PW samples are scheduled for 2/15.

14.2 Field Data

Treatment plant effluent is monitored for pH and temperature on a weekly basis in order to obtain a monthly average in compliance with the NYSDEC discharge permit requirements. These readings are obtained from discharge samples taken from a controlled point with calibrated portable meters. A summary of these data is as follows:

| Date | рН | Temperature (°C) |
|------------------|------|------------------|
| January 3, 2012 | 6.58 | 12 |
| January 9, 2012 | 6.58 | 12 |
| January 16, 2012 | 6.63 | 12 |
| January 23, 2012 | 6.56 | 11 |
| January 30, 2012 | 6.54 | 11 |
| Monthly Average | 6.58 | 11.6 |

The NYSDEC discharge permit requires the PD to have an average monthly pH greater than 5.50. The treatment plant effluent pH averaged 6.58 in January and met the monthly average pH discharge requirement.

Soundings to determine the depth to the bottom of the IWs were taken on January 5. A summary of the historical data is included in Table 14-1. While the wells are stable, there has been an accumulation of sediment in the four injection wells. IW-1 is the most severe case, with the influx of sand accounting for more than 100 feet of sediment in the bottom of the well. Since September 2011, there has been a buildup of sediment in IW-2. During this time, the DTW has decreased. Flow to this well has been restricted.

Water elevations in the IWs are recorded on a daily basis as is the daily total flow discharged to the well field. These are depicted in Figure 14-1. The IW levels were generally steady while the pumps were active. The transducer for IW-2 continues to generate an unreliable signal.

The injection well falling head test was performed on January 25. A graphic representation of the time required to drop the water level to a static condition is presented in Figure 14-2. Comparisons of baseline data from March 2006 to that of recent tests (Figure 14-3) indicate

that three of four wells are stable. The stability of the 4th well, IW-2, is undetermined as the transducer is not functioning correctly.

Other data collected during January included:

- The plant air was sampled with PID on 4 occasions.
- The process motor amp load readings were recorded
- The plant sound level readings were recorded twice.
- The depth-to-water readings were recorded for the injection wells. This was compared to the soundings and the transducer readings
- The flow-meter readings and the depth of water in the infiltration galleries were recorded.

15.0 PROCESS ANALYSIS, INTERPRETATIONS, AND CONCLUSIONS

15.1 Influent Process

- Currently, the three extraction well pumps are on-line. The pumps are controlled by water level set points in the wells and in the EQ tank.
- The heat system was activated on the level monitor if the EQ tank.
- Currently, the three influent pumps are operational with 2 pumps on-line at a time.
- There continues to be some drift in the signal to influent pump-1.

No other new issues arose with the extraction/influent system. Routine maintenance continues.

15.2 Flow through Aeration Process

Both treatment trains are on-line for the treatment of the influent water.

The polymer, potassium permanganate, caustic, and HCl feed systems remain out of service as current water conditions make their use unnecessary. The flash and flocculation mixers at the clarifiers remain idle due to the discontinued use of the polymer and lack of solids generation. The reaction tanks and clarifier systems continue to operate as pass-through settling tanks.

15.3 Settling Filter Process

The frequency of air sparging of the discharge drain screens has increased. The tanks are drained and cleaned as necessary. The system is fully functional.

15.4 Air Stripping Process

- The three ASF pumps are operational and are rotated into service two at a time.
- The VFD for ASF P2 continues to exhibit an earth ground fault. When on-line, Pump 2 operates through the off line pump's VFD.
- Pump #3 emits a high pitched whine, which will require future address.

- The carbon beds are routinely drained of condensate.
- The blower is checked daily and is fully functional.

No other issues arose with the air stripping system. Routine maintenance continues.

15.5 Aqueous-Phase Carbon Treatment Process

- All three feed pumps are operational, with two pumps rotated into service at a time.
- Pump 2 lost power and backed up the plant causing system cycling. Pump has been returned to service.
- A pin-hole leak has developed in the side wall of LCA vessel 2

Other routine maintenance tasks continued.

15.6 Treated Water Injection Process

The plant's total discharge flow rate and volume are measured by a magnetic flow meter on the injection pump discharge manifold. Flow sensors and transmitters installed in the discharge line to each injection well system are on-line and connected to the MCP and HMI.

- The plant discharge system is online and fully operational.
- The water level in IW-2 has remained high for several weeks. Flow is restricted to the well.
- All three INJ pumps are operational.
- The level transducer in IW-2 continues to produce an unreliable signal.
- The galleries are adequately draining.
- The leak in the PVC piping at the discharge of pump 2 was repaired.
- The main drain valves on the treated water tanks were replaced.

No other issues were encountered with the injection system in January. Routine maintenance tasks continue.

16.0 GROUNDS

Routine maintenance tasks continue outside the plant. This includes weather related clean up tasks and landscaping duties.

16.1 Plant Perimeter

- The warning signs on the perimeter fences are re-secured as needed.
- No plowing was required with this month's snow fall.

16.2 Well Field

Upkeep of the well field is coordinated with SUNY Farmingdale's maintenance department. The field has been adequately mowed and access remains good.

16.3 Other

• The path to the BP-3 cluster has eroded in stretches and may cause access problems if they get worse.

There were no other significant issues outside the plant. Routine maintenance continues.

FIGURES

INJ-2 LEVEL

- INJ-3 LEVEL

170 120 160 150 100 140 The transducer for IW-2 is defective and its output should be disregarded. It is scheduled for replacement. 130 12/5 plant down 4 hours during backwashing of CA vessels 120 01/24 plant shut down for repairs (25+ hours) 80 110 Elevation (Ft. AMSL) 100 90 80 70 60 40 50 40 30 20 20 10 Date No.

Figure 14-1 Injection Well Elevations and Daily Flow

INJ-4 LEVEL

→ INJ-1 LEVEL → Daily Flow (10,000 Gallons)

Figure 14-2 Injection Well Falling Head Test - January 25, 2012

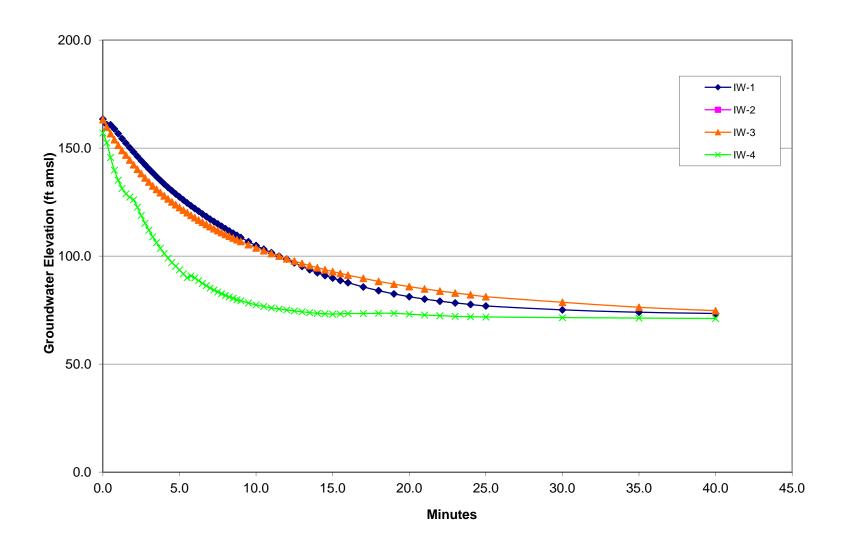
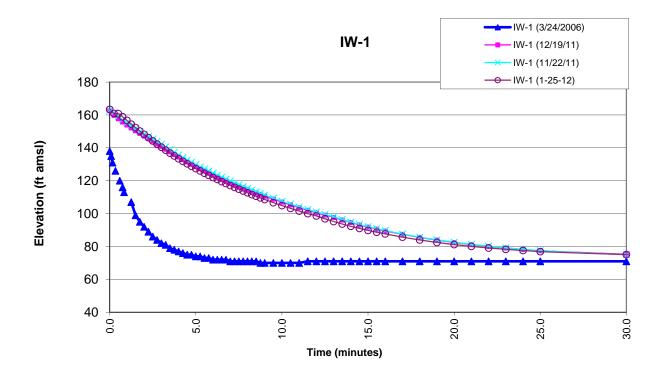
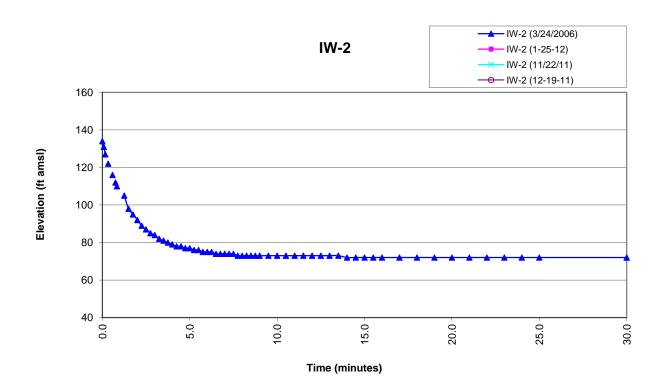
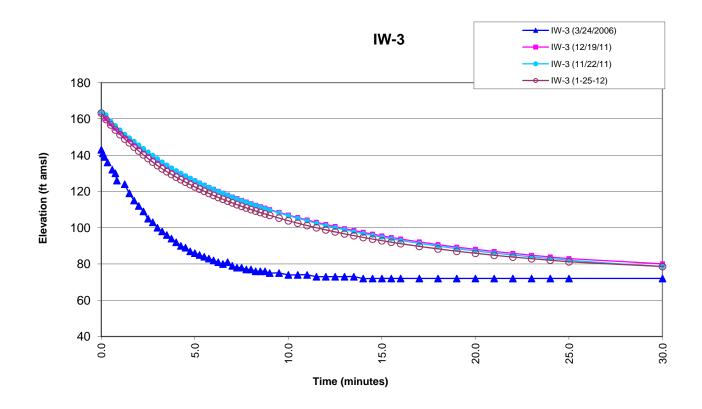


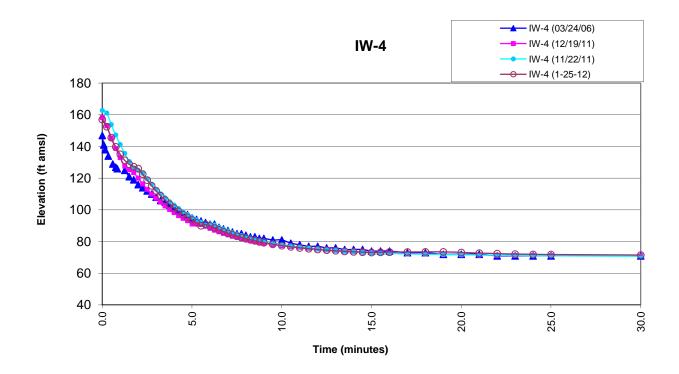
Figure 14-3 Comparison of Falling Head Tests





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TABLES

Table 7-1 Magnetic Flow Meter Daily Totalizer Readings

January 2012

| DATE | TOTALIZER READING | GALLONS PER DAY | GALLONS PER MINUTE |
|--------------------------------|----------------------|--------------------|-----------------------|
| 1/1/2012 | 477408776 | 1111224 | 386 |
| 1/3/2012 | 478520000 | 520000 | 361 |
| 1/4/2012 | 479040000 | 530000 | 368 |
| 1/5/2012 | 479570000 | 520000 | 361 |
| 1/6/2012 | 480090000 | 1560000 | 361 |
| 1/9/2012 | 481650000 | 520000 | 361 |
| 1/10/2012 | 482170000 | 510000 | 354 |
| 1/11/2012 | 482680000 | 510000 | 354 |
| 1/12/2012 | 483190000 | 530000 | 368 |
| 1/13/2012 | 483720000 | 1550000 | 359 |
| 1/16/2012 | 485270000 | 510000 | 354 |
| 1/17/2012 | 485780000 | 520000 | 361 |
| 1/18/2012 | 486300000 | 530000 | 368 |
| 1/19/2012 | 486830000 | 510000 | 354 |
| 1/20/2012 | 487340000 | 1560000 | 361 |
| 1/23/2012 | 488900000 | 520000 | 361 |
| 1/24/2012 | 489420000 | 430000 | 299 |
| 1/25/2012 | 489850000 | 20000 | 14 |
| 1/26/2012 | 489870000 | 490000 | 340 |
| 1/27/2012 | 490360000 | 1470000 | 340 |
| 1/30/2012 | 491830000 | 510000 | 354 |
| 1/31/2012 | 492340000 | 488046 | 339 |
| 2/1/2012 | 492828046 | | |
| Jan. 2012 TOTAL WATER | | 15,419,270 | |
| Jan. 2012 AVG. G DISCHARGED | ALLONS PER MIN | UTE | 345 |

TABLE 14-1 Injection Well Soundings

| | Injectio | on Well 1 | Injection | on Well 2 | Injectio | on Well 3 | Injectio | on Well 4 |
|------------|----------------------------|------------|----------------------------|------------|----------------------------|------------|----------------------------|------------|
| Date | Depth to Bottom (ft) | Difference |
| 6/17/2004 | 248.50 | | 248.50 | | 253.20 | | 205.00 | |
| 7/23/2004 | 247.97 | 0.53 | 248.19 | 0.31 | 251.20 | 2.00 | 203.50 | 1.50 |
| 8/16/2004 | 247.90 | 0.07 | 248.18 | 0.01 | 251.00 | 0.20 | 203.40 | 0.10 |
| 9/14/2004 | 247.95 | -0.05 | 248.15 | 0.03 | 251.10 | -0.10 | 203.95 | -0.55 |
| 10/28/2004 | 247.79 | 0.16 | 248.20 | -0.05 | 251.20 | -0.10 | 203.15 | 0.80 |
| 11/15/2004 | 247.40 | 0.39 | 248.26 | -0.06 | 251.03 | 0.17 | 204.03 | -0.88 |
| 12/29/2004 | 247.87 | -0.47 | 248.33 | -0.07 | 250.82 | 0.21 | 204.40 | -0.37 |
| 1/10/2005 | 247.83 | 0.04 | 248.12 | 0.21 | 250.54 | 0.28 | 204.70 | -0.30 |
| 2/16/2005 | 247.50 | 0.33 | 248.25 | -0.13 | 250.45 | 0.09 | 204.36 | 0.34 |
| 3/18/2005 | 247.82 | -0.32 | 248.10 | 0.15 | 250.40 | 0.05 | 204.43 | -0.07 |
| 4/5/2005 | 247.78 | 0.04 | 248.13 | -0.03 | 250.47 | -0.07 | 204.20 | 0.23 |
| 5/10/2005 | 247.81 | -0.03 | 248.14 | -0.01 | 250.45 | 0.02 | 204.22 | -0.02 |
| 6/30/2005 | 247.62 | 0.19 | 247.25 | 0.89 | 250.36 | 0.09 | 204.04 | 0.18 |
| 7/26/2005 | 247.67 | -0.05 | 246.82 | 0.43 | 249.93 | 0.43 | 204.11 | -0.07 |
| 8/29/2005 | 247.71 | -0.04 | 246.50 | 0.32 | 249.78 | 0.15 | 204.17 | -0.06 |
| 9/27/2005 | 247.77 | -0.06 | 246.29 | 0.21 | 249.77 | 0.01 | 203.90 | 0.27 |
| 10/24/2005 | 247.78 | -0.01 | 246.00 | 0.29 | 249.44 | 0.33 | 203.84 | 0.06 |
| 11/14/2005 | 247.51 | 0.27 | 246.19 | -0.19 | 249.10 | 0.34 | 203.57 | 0.27 |
| 12/27/2005 | 247.60 | -0.09 | 245.70 | 0.49 | 249.32 | -0.22 | 203.83 | -0.26 |
| 1/27/2006 | 247.51 | 0.09 | 246.09 | -0.39 | 249.21 | 0.11 | 203.98 | -0.15 |
| 2/16/2006 | 247.50 | 0.01 | 245.69 | 0.40 | 249.19 | 0.02 | 203.98 | 0.00 |
| 3/23/2006* | 247.59 | -0.09 | 245.65 | 0.04 | 249.60 | -0.41 | 203.75 | 0.23 |
| 4/28/2006 | 247.54 | 0.05 | 243.68 | 1.97 | 249.50 | 0.10 | 203.78 | -0.03 |
| 5/24/2006 | 247.38 | 0.16 | 243.61 | 0.07 | 249.57 | -0.07 | 203.90 | -0.12 |
| 6/20/2006 | 247.47 | -0.09 | 243.70 | -0.09 | 249.46 | 0.11 | 203.14 | 0.76 |
| 7/28/2006 | 247.44 | 0.03 | 243.37 | 0.33 | 249.52 | -0.06 | 203.33 | -0.19 |
| 8/21/2006 | 247.34 | 0.10 | 243.19 | 0.18 | 249.42 | 0.10 | 202.88 | 0.45 |
| 9/22/2006 | 247.36 | -0.02 | 242.70 | 0.49 | 249.27 | 0.15 | 203.05 | -0.17 |
| 10/30/2006 | 247.16 | 0.20 | 242.64 | 0.06 | 249.48 | -0.21 | 203.92 | -0.87 |
| 11/29/2006 | 247.32 | -0.16 | 242.50 | 0.14 | 249.22 | 0.26 | 203.19 | 0.73 |
| 12/29/2006 | 247.22 | 0.10 | 242.52 | -0.02 | 249.29 | -0.07 | 203.15 | 0.04 |
| 1/30/2007 | 247.44 | -0.22 | 242.60 | -0.08 | 249.47 | -0.18 | 203.35 | -0.20 |
| 2/21/2007 | 247.63 | -0.19 | 242.56 | 0.04 | 249.42 | 0.05 | 203.32 | 0.03 |
| 3/29/2007 | 247.11 | 0.52 | 242.54 | 0.02 | 249.22 | 0.20 | 201.55 | 1.77 |
| 4/20/2007 | 247.17 | -0.06 | 242.29 | 0.25 | 249.19 | 0.03 | 201.24 | 0.31 |
| 5/25/2007 | 246.85 | 0.32 | 242.86 | -0.57 | 249.11 | 0.08 | 201.24 | 0.00 |
| 6/28/2007 | 246.63 | 0.22 | 242.15 | 0.71 | 248.80 | 0.31 | 200.96 | 0.28 |
| 7/26/2007 | 245.88 | 0.75 | 242.13 | 0.02 | 248.78 | 0.02 | 200.80 | 0.16 |
| 8/23/2007 | 245.96 | -0.08 | 242.03 | 0.10 | 248.73 | 0.05 | 200.22 | 0.58 |
| 9/27/2007 | 245.79 | 0.17 | 241.96 | 0.07 | 246.80 | 1.93 | 200.29 | -0.07 |
| 10/25/2007 | 244.69 | 1.10 | 242.08 | -0.12 | 248.73 | -1.93 | 200.14 | 0.15 |
| 11/19/2007 | 242.20 | 2.49 | 242.00 | 0.08 | 249.60 | -0.87 | 201.05 | -0.91 |

| 12/21/2007 | 235.02 | 7.18 | 241.56 | 0.44 | 249.62 | -0.02 | 200.08 | 0.97 |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|
| 1/29/2008 | 232.46 | 2.56 | 241.98 | -0.42 | 249.63 | -0.01 | 200.03 | 0.05 |
| 2/29/2008 | 226.58 | 5.88 | 242.12 | -0.14 | 249.82 | -0.19 | 199.52 | 0.51 |
| 3/27/2008 | 220.50 | 6.08 | 241.90 | 0.22 | 249.50 | 0.32 | 199.30 | 0.22 |
| 4/29/2008 | 222.50 | -2.00 | 242.02 | -0.12 | 249.60 | -0.10 | 198.98 | 0.32 |
| 5/30/2008 | 218.55 | 3.95 | 241.90 | 0.12 | 249.47 | 0.13 | 198.65 | 0.33 |
| 6/26/2008 | 218.60 | -0.05 | 241.95 | -0.05 | 249.50 | -0.03 | 198.65 | 0.00 |
| 7/29/2008 | 214.98 | 3.62 | 242.20 | -0.25 | 249.68 | -0.18 | 198.68 | -0.03 |
| 8/26/2008 | 207.03 | 7.95 | 241.90 | 0.30 | 249.72 | -0.04 | 198.65 | 0.03 |
| 9/26/2008 | 202.40 | 4.63 | 241.93 | -0.03 | 249.52 | 0.20 | 198.60 | 0.05 |
| 10/27/2008 | 200.68 | 1.72 | 241.88 | 0.05 | 249.50 | 0.02 | 198.59 | 0.01 |
| 11/20/2008 | 198.05 | 2.63 | 242.12 | -0.24 | 249.54 | -0.04 | 198.64 | -0.05 |
| 12/29/2008 | 178.29 | 19.76 | 242.10 | 0.02 | 249.15 | 0.39 | 198.30 | 0.34 |
| 1/26/2009 | 167.50 | 10.79 | 241.90 | 0.20 | 248.87 | 0.28 | 198.28 | 0.02 |
| 2/25/2009 | 151.20 | 16.30 | 242.00 | -0.10 | 248.80 | 0.07 | 198.80 | -0.52 |
| 3/13/2009 | 148.68 | 2.52 | 241.87 | 0.13 | 248.94 | -0.14 | 198.28 | 0.52 |
| 4/17/2009 | 148.52 | 0.16 | 241.67 | 0.20 | 249.00 | -0.06 | 198.10 | 0.18 |
| 5/15/2009 | 147.60 | 0.92 | 241.64 | 0.03 | 249.05 | -0.05 | 198.10 | 0.00 |
| 6/8/2009 | 147.50 | 0.10 | 241.60 | 0.04 | 248.95 | 0.10 | 197.92 | 0.18 |
| 7/27/2009 | 147.20 | 0.30 | 242.40 | -0.80 | 249.00 | -0.05 | 197.90 | 0.02 |
| 8/13/2009 | 147.20 | 0.00 | 241.55 | 0.85 | 248.90 | 0.10 | 198.00 | -0.10 |
| 9/16/2009 | 147.20 | 0.00 | 241.50 | 0.05 | 248.90 | 0.00 | 198.00 | 0.00 |
| 10/28/2009 | 147.20 | 0.00 | 241.44 | 0.06 | 248.50 | 0.40 | 197.95 | 0.05 |
| 11/19/2009 | 146.90 | 0.30 | 241.50 | -0.06 | 248.53 | -0.03 | 198.00 | -0.05 |
| 12/10/2009 | 147.40 | -0.50 | 242.50 | -1.00 | 249.20 | -0.67 | 198.10 | -0.10 |
| 1/22/2010 | 147.20 | 0.20 | 241.80 | 0.70 | 248.50 | 0.70 | 198.00 | 0.10 |
| 3/4/2010 | 147.28 | -0.08 | 241.20 | 0.60 | 245.45 | 3.05 | 198.00 | 0.00 |
| 3/24/2010 | 144.95 | 2.33 | 241.60 | -0.40 | 248.30 | -2.85 | 198.00 | 0.00 |
| 4/19/2010 | 147.25 | -2.30 | 241.65 | -0.05 | 247.70 | 0.60 | 198.00 | 0.00 |
| 5/26/2010 | 147.28 | -0.03 | 241.80 | -0.15 | 248.00 | -0.30 | 198.00 | 0.00 |
| 6/24/2010 | 147.18 | 0.10 | 241.72 | 0.08 | 248.80 | -0.80 | 198.00 | 0.00 |
| 7/27/2010 | 144.50 | 2.68 | 241.10 | 0.62 | 248.90 | -0.10 | 198.00 | 0.00 |
| 8/19/2010 | 146.95 | -2.45 | 241.70 | -0.60 | 249.05 | -0.15 | 198.00 | 0.00 |
| 9/14/2010 | 146.00 | 0.95 | 241.70 | 0.00 | 249.10 | -0.05 | 198.00 | 0.00 |
| 10/14/2010 | 145.90 | 0.10 | 241.65 | 0.05 | 249.10 | 0.00 | 198.00 | 0.00 |
| 11/8/2010 | 144.46 | 1.44 | 241.60 | 0.05 | 249.00 | 0.10 | 198.00 | 0.00 |
| 12/17/2010 | 145.83 | -1.37 | 241.60 | 0.00 | 249.10 | -0.10 | 198.00 | 0.00 |
| 2/24/2011 | 144.50 | 1.33 | 241.60 | 0.00 | 249.10 | 0.00 | 197.98 | 0.02 |
| 3/22/2011 | 145.80 | -1.30 | 241.60 | 0.00 | 248.90 | 0.20 | 198.00 | -0.02 |
| 4/12/2011 | 145.80 | 0.00 | 241.60 | 0.00 | 248.50 | 0.40 | 197.50 | 0.50 |
| 5/23/2011 | 148.80 | -3.00 | 241.60 | 0.00 | 248.40 | 0.10 | 197.50 | 0.00 |
| 6/22/2011 | 145.80 | 3.00 | 241.60 | 0.00 | 248.00 | 0.40 | 197.83 | -0.33 |
| 7/15/2011 | 147.28 | -1.48 | 241.60 | 0.00 | 247.70 | 0.30 | 197.80 | 0.03 |
| 8/12/2011 | 145.85 | 1.43 | 241.50 | 0.10 | 248.25 | -0.55 | 197.80 | 0.00 |
| 9/21/2011 | 145.90 | -0.05 | 241.10 | 0.40 | 248.25 | 0.00 | 197.73 | 0.07 |
| 10/7/2011 | 144.30 | 1.60 | 239.95 | 1.15 | 247.90 | 0.35 | 197.75 | -0.02 |
| 11/17/2011 | 145.70 | -1.40 | 236.70 | 3.25 | 248.72 | -0.82 | 197.70 | 0.05 |
| 12/2/2011 | 145.95 | -0.25 | 233.80 | 2.90 | 248.30 | 0.42 | 194.65 | 3.05 |
| 1/5/2012 | 148.80 | -2.85 | 233.20 | 0.60 | 247.98 | 0.32 | 197.70 | -3.05 |

| Change From 6/17/04 to Present | 99.70 | 15.30 | 5.22 | 7.30 |
|-----------------------------------|--------------------|------------------------------|------|------|
| Change From 6-04 thru 2- 06 | 1.00 | 2.81 | 4.01 | 1.02 |
| *Injection wells IW-2 and IW | -3 redeveloped dur | ing week ending 3/17/2006 | | |
| Change from 3-06 thru 10/07 | 2.90 | 3.57 | 0.87 | 3.61 |
| Injection wells IW-1 and IW- | 3 were redeveloped | d during week ending 11/9/07 | | |
| Change 11-07 thru 3/08 | 21.70 | 0.10 | 0.10 | 1.75 |
| Injection wells IW-1 and IW- | 3 were redeveloped | d during week ending 4/25/08 | | |
| Change 4/08 to present | 73.70 | 8.82 | 1.62 | 1.28 |

Associated and Referenced Documents

| Document | Location |
|---|---|
| Daily Data Logs and Worksheets | Monthly file folders |
| Daily Operating Log | |
| Daily activities Summary Report | |
| Daily Site Safety Inspection | |
| Employee Sign-in Sheet | |
| Supporting Worksheets | Monthly file folders |
| Visitor/Subcontractor Sign-in Sheet | |
| Air Monitoring Log | |
| Sound Monitoring Worksheet | |
| Daily Plant Activity Notes | |
| Comprehensive Site Safety Inspections | |
| Plant Operator's Daily Log Book | Current book issued to operator, completed |
| | books on file in shop cabinet |
| Site Supervisor's Daily Log Book | Current book issued to supervisor, completed |
| | books on file in shop cabinet |
| Daily Database | Electronic file in Claremont Docs/Claremont Ops |
| | Data/ monthly operating data folder and on |
| | server |
| Daily Operations Summary Report | Electronic file in Claremont Docs/Claremont Ops |
| | Data/ monthly operating data folder and on |
| | server |
| Monthly Operations Report | Electronic file in Claremont Docs/Claremont Ops |
| | Data/ monthly operating data folder and on |
| | server |
| Monthly Maintenance Log | Electronic file in Claremont Docs/Claremont Ops |
| | Data/ monthly operating data folder and on |
| | server |
| Activities Schedule | Electronic file in Claremont Docs/Claremont Ops |
| | Data/ monthly operating data folder and on |
| | server |
| Groundwater Elevation and Water Quality | Electronic file in Claremont Docs folder |
| Database | |
| Monthly Plant Truck Inspection Worksheet | JSJ files |
| Stand Alone Documents | Bindered copies in control room, electronic |
| Claremont O&M Manual | copies on server |
| Site Safety and Health Plan | |
| Standard Operating Procedures and Instruction | |
| manual | |
| Sampling and Analysis Plan | |
| Claremont Site Notebook | Electronic file on server |