

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

**MONTHLY REPORT
of the
Operations & Maintenance Activities
During
February 2012**

Prepared for the:

New York State Department of Environmental Conservation

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Prepared: March 6, 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	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
SSHPP	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 February 2012. This period is defined as 0600 hours, February 1, 2012, through 0600 hours, March 1, 2012. O&M conducted during this reporting period was performed in accordance with the site O&M Manual.

The system operated for 29 days in the February reporting period. The plant experienced 280 minutes of downtime when the plant was shut down to backwash the liquid side carbon adsorber vessels.

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.

On February 23, a problem arose with the HMI computer. Upon start-up, the windows operating system did not open and therefore, the HMI controls are not accessible. The plant continues to operate in the automatic mode but some parameters cannot be seen or adjusted.

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 and clean up tasks.
- The process pumps were rotated (two on-line, one off) three 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 motor bearings on INF P2 were greased. This is becoming a more frequent task as the motor appears to be failing.
- The AS duct heater was activated and the start-up problems were repaired. After two weeks the heater was shut down.
- Flow problems were experienced with the sampling hydrant on EX-2. It may be frozen or the valve stuck. This will be addressed before the next PW sampling task
- The motor of ASFD P3 was lubricated.
- The baffles of both clarifiers were cleaned.
- The AS blower motor was lubricated.
- Both liquid side CA vessels were backwashed. The effluent was passed through the filter press and the carbon waste was dried and collected.
- The ASF tank level monitors were flushed as many false low level alarms were received.
- The KMnO4 tank was drained and the leaking drain flange was removed. It appears that the flange gasket is damaged and needs to be replaced.
- The water seal loop on INJ P2 was removed and the ports plugged.
- The 8 'questionable' waste drums were topped off with dry sludge at the instruction of the TSD facility.
- The monthly truck inspection was completed.

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

- Adam Fox and Tom Battles from Farmington were on site for a plant visit and to go over the logistics of removing certain plant equipment.
- Tom Seguljic and Jake Tracy from Clifton Park were on site for a plant visit and to review energy usage and requirements.
- Mike Peck from Farmington was on site to check on solutions to the HMI computer problem.

3.2 NYSDEC Personnel, sub-contractors and other visitors

- Ben Rung of NYSDEC was on site for a visit and an operation update.
- Sirina Fire Protection Systems was in to perform the quarterly sprinkler system inspection.

3.3 Deliveries

- Mail was delivered on 4 occasions
- Federal Express delivered sampling bottles on 2 occasions.

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 February 2012 period.

The plant supervisor is currently taking HAZWOPER 8-hr refresher training.

5.0 PLANNED ACTIVITIES AND SCHEDULES

The status of project work and significant corrective maintenance activities is updated on a monthly basis. This Project Status Report was updated February 29 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 February, as measured from 0600 hours on February 1, 2011, to 0600 hours on March 1, 2012, was 15,526,961 gallons. This volume is approximately 111 percent of the monthly targeted treatment goal. The cumulative amount of treated water for this operating year (June 1, 2011 to present) is 140,979,527 gallons. This is approximately 7 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 February, the plant discharge flow averaged 372 gallons per minute (gpm) and 535,412 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 February are indicated below:

Injection Well System	Flow Average (gpm)	Volume Discharged (gallons)
IW-1	96	3,996,410
IW-2	90	3,765,410
IW-3	117	4,889,180
IW-4	81	3,405,340
System	385	16,055,950

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:

Chemical	Inventory	
	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 backwashed in February. 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 February.
- The eight previously shipped and returned suspect drums are awaiting disposition. SAIC continues to work on securing a suitable TSD (treatment-storage-disposal) facility. These drums were topped off with dry cake.

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

The HMI computer shut down and the operating system cannot be restarted. The operation of the plant remains in automatic mode; however, the processes can only be manually monitored and adjusted. Plans are underway to replace the hard drive and reboot the operating system without losing the Citect controls.

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.

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 the March PD sampling task.
- Schedule quarterly GW sampling task
- Repair leak on LCA vessel 2
- Replace seals on snow plow hydraulic pump
- Replace the emergency exit light at the SE exit door
- Evaluate and replace the motors of INF P2 and ASF P3
- Determine the cause of EX-2 sampling hydrant flow issues

13.0 PLANT DOCUMENTS

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

- The plant Visio.vsd drawings were converted to Auto CAD.dwg drawings and stored on the server.
- The EDD instructions CPS-SI-006 were updated to rev. B

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. February's sampling activities included:

- The February PW samples were collected and shipped to TestAmerica-Edison on 2/15 for organic, inorganic and generic analysis.
- The March PD samples are scheduled for 3/14.

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	pH	Temperature (°C)
February 6, 2012	6.69	10
February 13, 2012	6.28	14
February 20, 2012	6.73	11
February 27, 2012	6.30	13
Monthly Average	6.50	12

The NYSDEC discharge permit requires the PD to have an average monthly pH greater than 5.50. The treatment plant effluent pH averaged 6.50 in February and met the monthly average pH discharge requirement.

Soundings to determine the depth to the bottom of the IWs were taken on February 2. 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 normally 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. With the HMI off-line the transducer signals cannot be read.

The injection well falling head test was performed on February 21. 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 signal remains problematic.

Other data collected during February included:

- The plant air was sampled with PID on 4 occasions.
- 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.
- 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.
- The motor for INF P2 is starting to show signs of wear. Its operation will continue to be monitored.

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. The baffles on the clarifiers were cleaned in February.

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 vapor phase 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.
- A pin-hole leak has developed in the side wall of LCA vessel 2
- Both vessels were backwashed in February.

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 in IW-2 is now draining adequately however, its influent flow remains restricted.
- All three INJ pumps are operational.
- The level transducer in IW-2 continues to produce an unreliable signal.
- The galleries are adequately draining.

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

16.0 GROUNDNS

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

16.1 Plant Perimeter

- General outdoor clean up continues.

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.
- Fallen debris is routinely removed from the well paths.

16.3 Other

- The path to the BP-3 cluster has eroded in stretches and may cause access problems if they get worse. Heavy rains would be a factor.

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

FIGURES

Figure 14-1 Injection Well Elevations and Daily Flow

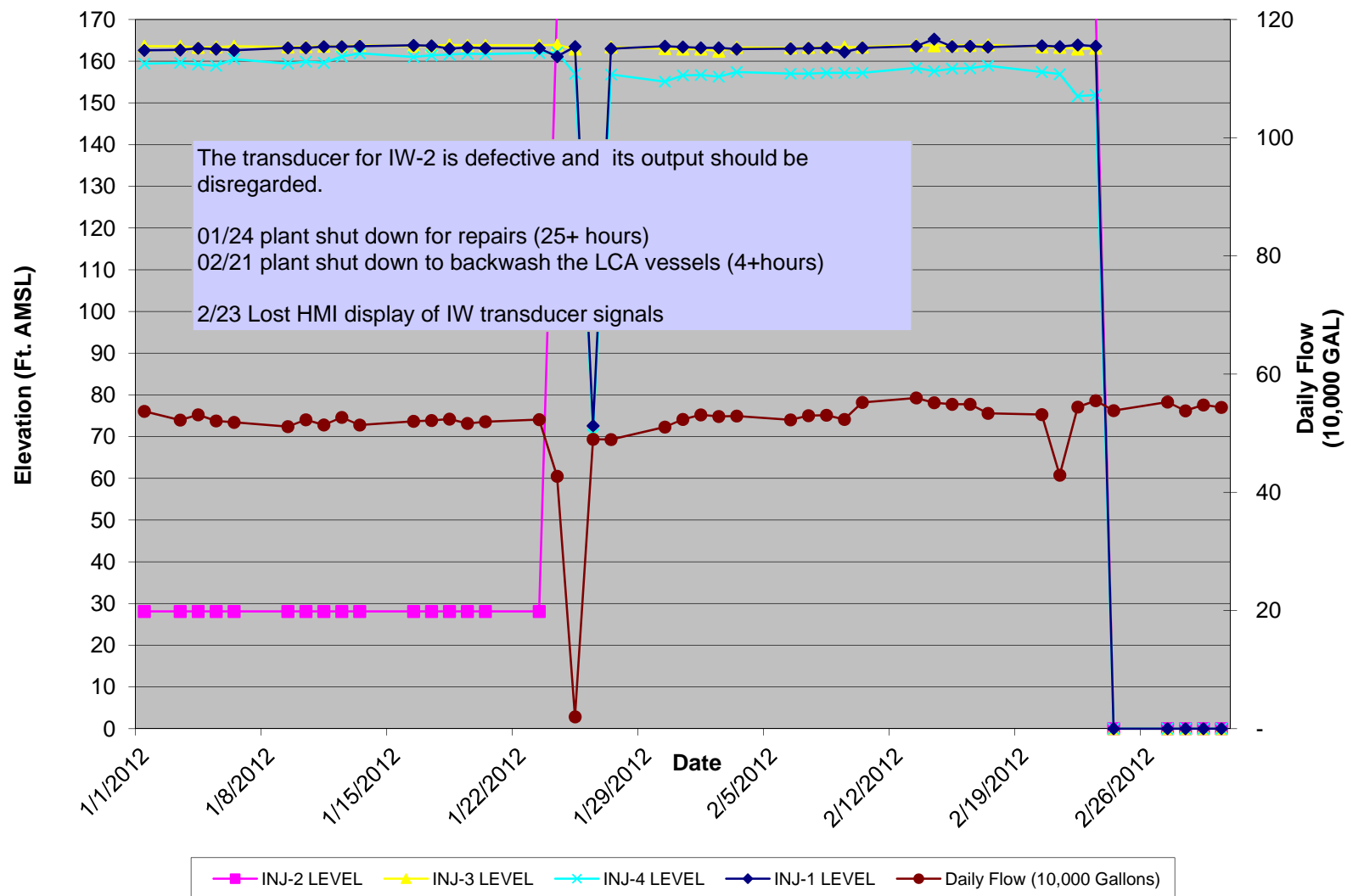


Figure 14-2 Injection Well Falling Head Test - February 21, 2012

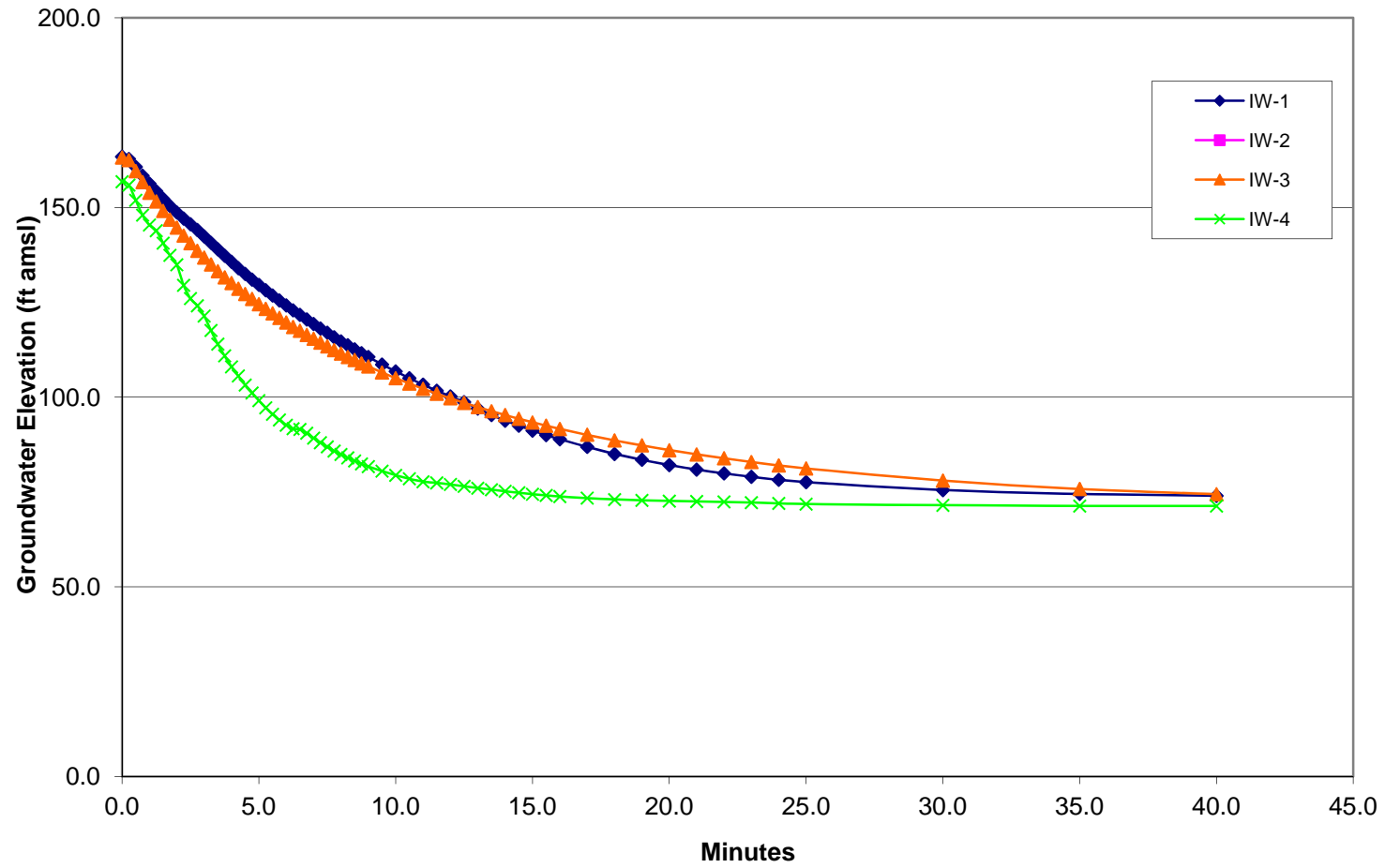
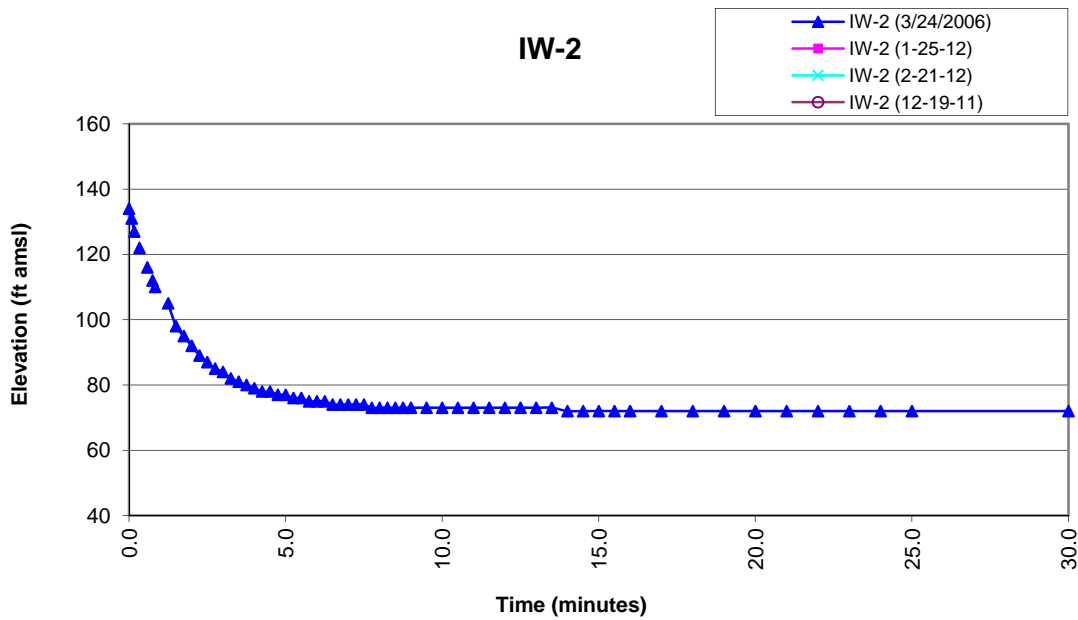
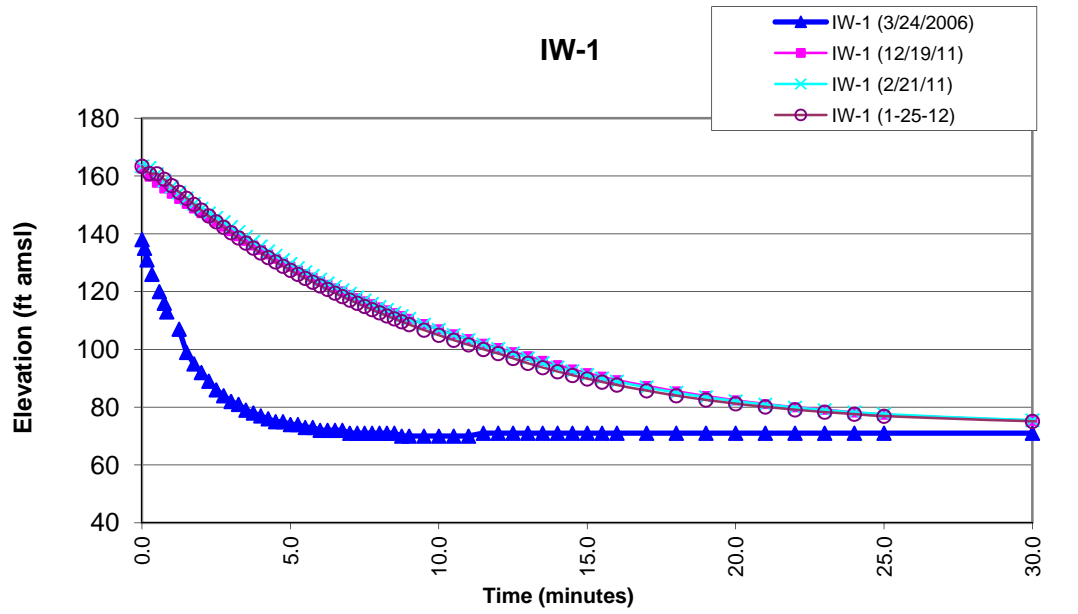
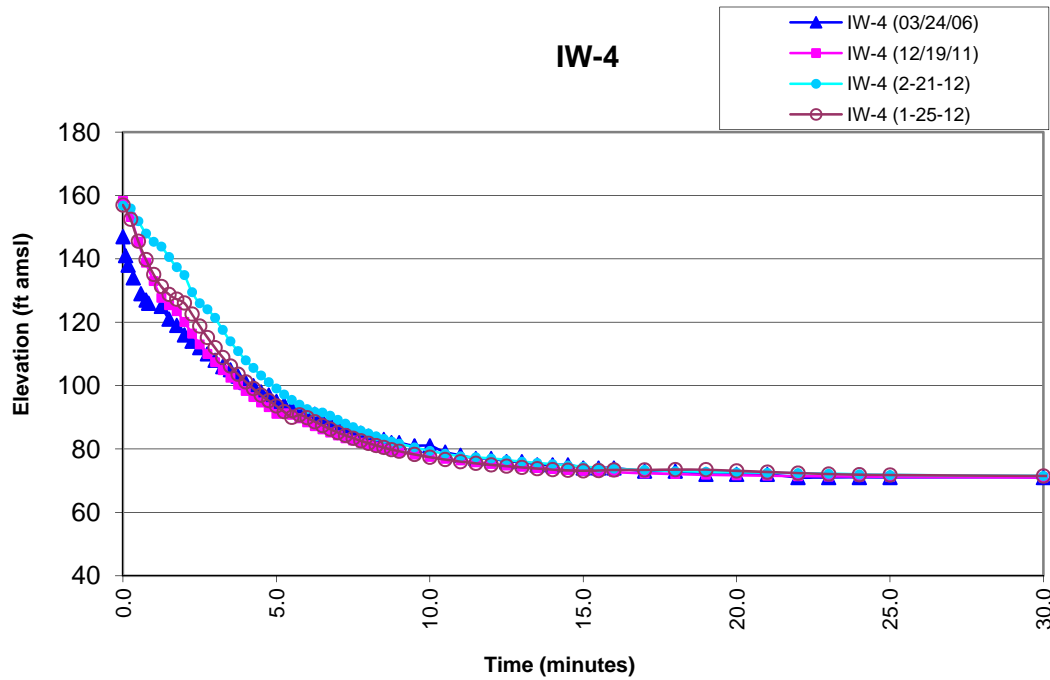
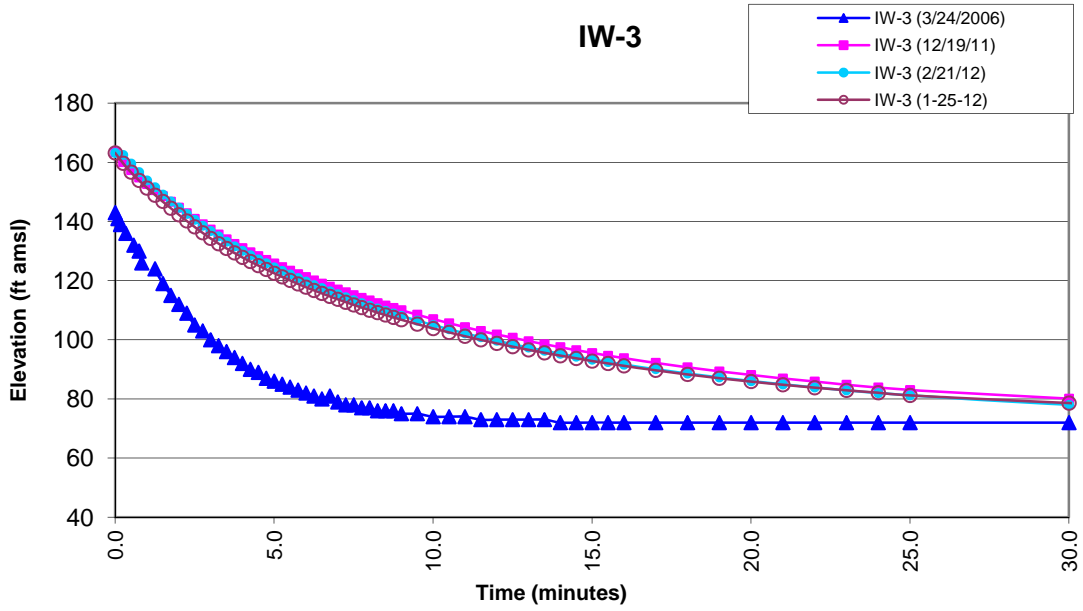


Figure 14-3 Comparison of Falling Head Tests





TABLES

Table 7-1 Magnetic Flow Meter Daily Totalizer Readings

February 2012

DATE	TOTALIZER READING	GALLONS PER DAY	GALLONS PER MINUTE
2/1/2012	492828046	561954	390
2/2/2012	493390000	580000	403
2/3/2012	493970000	1540000	356
2/6/2012	495510000	520000	361
2/7/2012	496030000	530000	368
2/8/2012	496560000	530000	368
2/9/2012	497090000	520000	361
2/10/2012	497610000	1660000	384
2/13/2012	499270000	560000	389
2/14/2012	499830000	550000	382
2/15/2012	500380000	550000	382
2/16/2012	500930000	550000	382
2/17/2012	501480000	1600000	370
2/20/2012	503080000	520000	361
2/21/2012	503600000	440000	306
2/22/2012	504040000	540000	375
2/23/2012	504580000	560000	389
2/24/2012	505140000	1610000	373
2/27/2012	506750000	560000	389
2/28/2012	507310000	530000	368
2/29/2012	507840000	515007	358
3/1/2012	508355007		
Feb. 2012 TOTAL TREATED WATER		15,526,961	
Feb. 2012 AVG. GALLONS PER MINUTE DISCHARGED			372

TABLE 14-1 Injection Well Soundings

Date	Injection Well 1		Injection Well 2		Injection Well 3		Injection Well 4	
	Depth to Bottom (ft)	Difference	Depth to Bottom (ft)	Difference	Depth to Bottom (ft)	Difference	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

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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
2/2/2012	145.85	-2.95	224.45	-8.75	248.10	0.12	197.60	-0.10

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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
<hr/> *Injection wells IW-2 and IW-3 redeveloped during week ending 3/17/2006				
Change from 3-06 thru 10/07	-2.90	-3.57	-0.87	-3.61
<hr/> Injection wells IW-1 and IW-3 were redeveloped during week ending 11/9/07				
Change 11-07 thru 3/08	-21.70	-0.10	-0.10	-1.75
<hr/> Injection wells IW-1 and IW-3 were redeveloped 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 Daily Operating Log Daily activities Summary Report Daily Site Safety Inspection Employee Sign-in Sheet	Monthly file folders
Supporting Worksheets Visitor/Subcontractor Sign-in Sheet Air Monitoring Log Sound Monitoring Worksheet Daily Plant Activity Notes Comprehensive Site Safety Inspections	Monthly file folders
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/Project Status Report	Electronic file in Claremont Docs/Claremont Ops Data/ monthly operating data folder and on server
Groundwater Elevation and Water Quality Database	Electronic file in Claremont Docs folder
Monthly Plant Truck Inspection Worksheet	JSJ files
Stand Alone Documents Claremont O&M Manual Site Safety and Health Plan Standard Operating Procedures and Instruction manual Sampling and Analysis Plan	Binded copies in control room, electronic copies on server
Claremont Site Notebook	Electronic file on server