

**FLORENCE COPPER INC.
FLORENCE COPPER PROJECT
THIRD QUARTER 2003 MONITORING REPORT
U.I.C. PERMIT AZ396000001
AND
A.P.P. PERMIT 101704**

October 28, 2003

MERRILL MINING, LLC
975 Johnson Ferry Road, Suite 450
Atlanta, Georgia 30342
404-495-9577 Fax: 404-495-9578

HUGH NOWELL
CORPORATE COUNSEL

October 28, 2003

Mr. Martin Zeleznik
Ground Water Office WTR-0
US Environmental Protection Agency Region IX
Water Management Division (WTR-9)
75 Hawthorne Street
San Francisco, California 94105-3901

RE: MONITORING REPORT FOR UIC PERMIT NUMBER AZ396000001
THIRD QUARTER 2003 REPORT

Dear Mr. Zeleznik,

This report is submitted in accordance with the reporting requirements of Parts II.G.2.(a) through (j) of the referenced permit. It pertains to monitoring activities conducted at the Florence In-Situ Mine Site from July 1 through September 30, 2003. Copies of records required by Part II.G.1 are maintained at the Mine Site along with other information that is summarized in the following:

(a) A map showing the current status of the mine

Figure 1 shows the current monitoring area including the Point of Compliance (POC) wells and the wellfield. Figure 2 shows the approximate layout of the wellfield and denotes the four well pairs. There are four injection/recovery wells and nine pumping wells. Five observation wells were installed to demonstrate net inward hydraulic gradient for the 90 days required by the permit. Solution injection began on October 31, 1997, and ceased on February 8, 1998.

(b) A table and graph showing daily cumulative injection flows and extraction flows in each active mine block over the reporting period.

Daily flowrates for each well have been recorded to show the relationship of flow into and out of the wellfield. The flow rates have been combined and are shown in Figure 1 of Attachment 1. Note that injection last occurred in early 1998 and that water has been continuously withdrawn since that time.

(c) A table and graph comparing average daily head in the four observation wells

Figures 2 through 5 of Attachment 1 and the supporting data compare the average daily water levels in the five observation wells with their nearest inward neighbor. Readings are either taken by continuous down-hole measurements recorded on the system computer or done manually. The figures show the hydraulic gradients were maintained throughout the quarter meeting the permit conditions.

(d) A table showing POC monitoring wells analytical results and alert levels

The attached report *Florence Project Quarterly Compliance Monitoring Report – Third Quarter 2003* by Brown and Caldwell and sealed by Ms. Tekla King, Registered Professional Geologist (Attachment 2), contains the POC monitoring records and results. Brown and Caldwell, along with Project personnel, conducted compliance sampling during the period July 7 through July 9 and July 29, 2003.

Quarterly and biennial parameters were conducted for 29 of the 31 POC monitor wells. POC monitor wells M32-UBF and M33-UBF were dry and could not be sampled. All results were below the Alert Levels (ALs) or Aquifer Quality Limits (AQLs). The results are discussed in the report.

During the Second Quarter of 2003, well M29-UBF had a reported TDS concentration of 3,200 mg/l, which exceeded the alert level of 2,751 mg/l. Because the final results were obtained from the laboratory after the quarter had ended, verification sampling was not performed during the quarter. The Third Quarter sampling provided the verification sampling for the TDS exceedance. The Third Quarter result of 1,500 mg/l was below the AL and therefore the exceedance was not verified. No further contingency sampling will be required.

(e) Results of the monthly analyses of organic in the injectate

Organic analyses are not required because no solution was injected during the reporting period.

(f) Results of monitoring required by 40 CFR 146.33 (b)(1)

No solution was injected.

(g) Results of the mechanical integrity tests

No mechanical integrity test was required.

(h) Results of the annular conductivity monitoring

Although injection ceased in early 1998, annular conductivity measurements have continued to the present time. A graph showing measurement results for this reporting period is presented in Attachment 1, Figure 6. No unusual conditions were noted.

(i) Well and core hole plugging and abandonment.

None of the existing wells and core holes were abandoned during the report period.

(j) A summary of closure operations during the reporting period.

There were no closure operations during the reporting period.

Florence Copper, Inc., believes that you will find this report complete and in compliance with all permit conditions. Please contact me at (404) 495-9577 should you have any questions regarding this report.

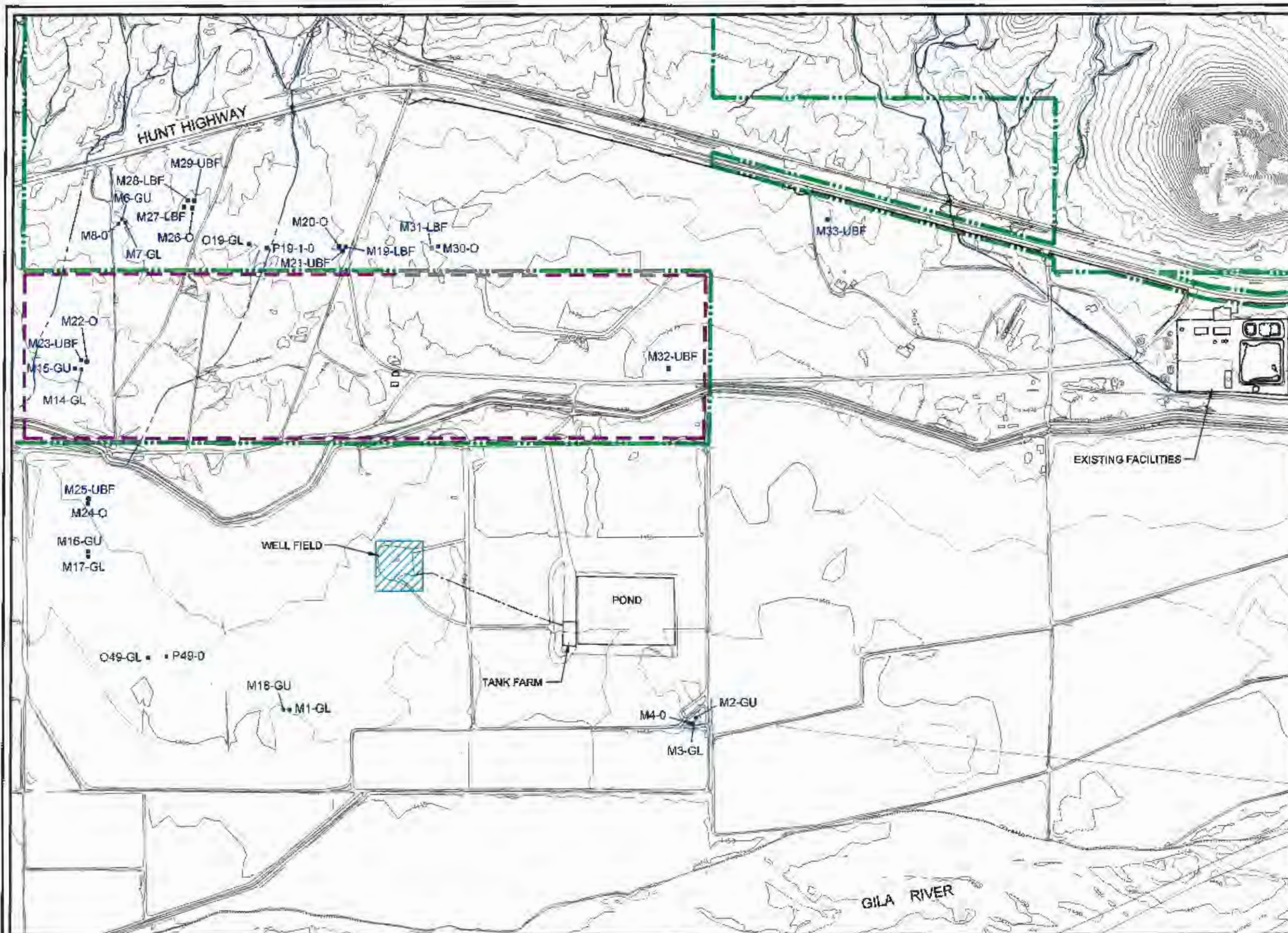
Sincerely,



Hugh Nowell
Corporate Counsel

BAS:lld
Attachments

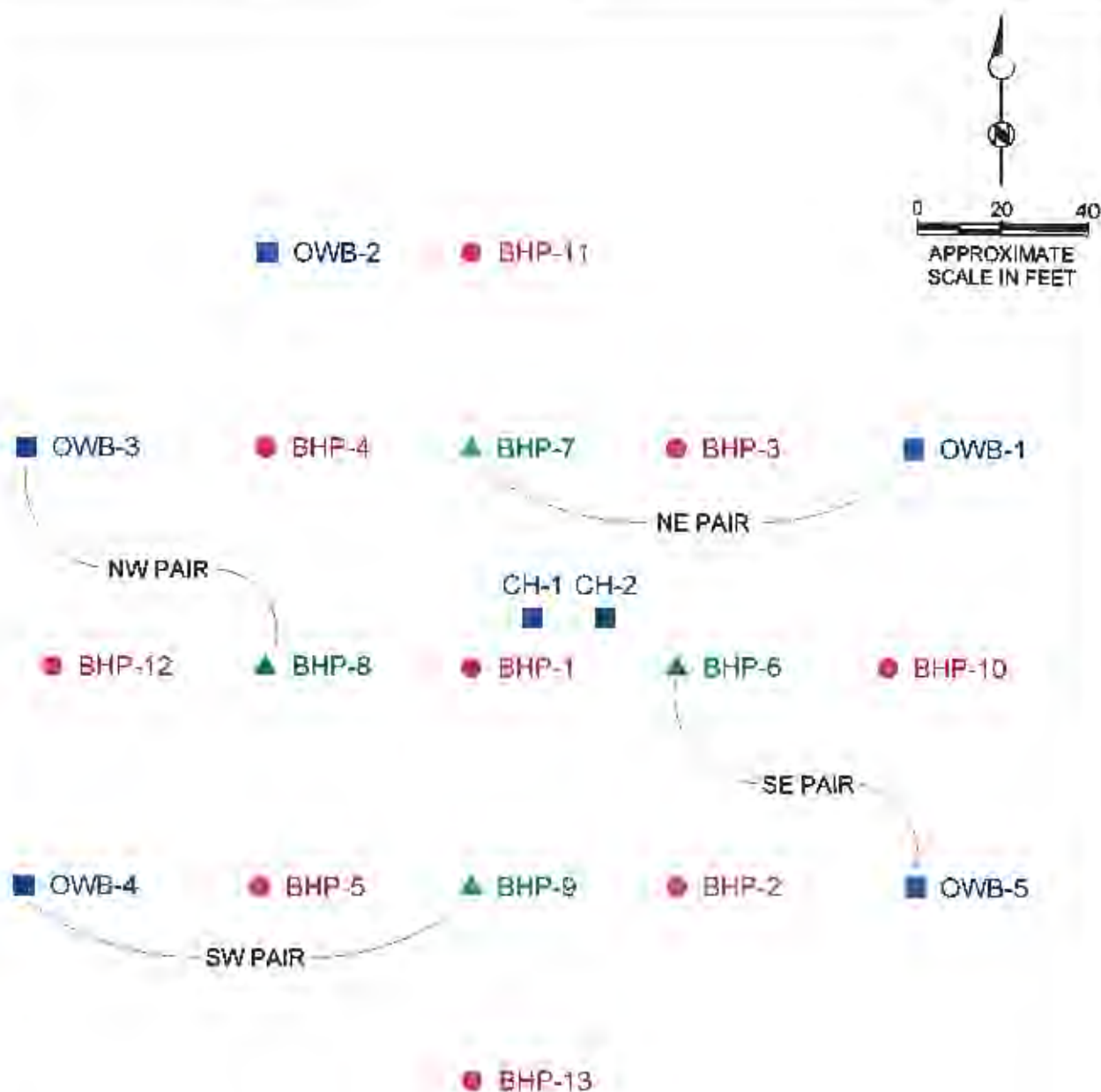
cc: Florence Copper File



| EXPLANATION | |
|-------------|-------------------------------|
| | APPROXIMATE PROPERTY BOUNDARY |
| | STATE LEASE LAND BOUNDARY |
| | Q19-GL POC MONITORING WELL |
| | ENLARGED AREA ON FIGURE 2 |

Figure 1
MONITORING AREA
 MERRILL MINING, L.L.C.
 FLORENCE, ARIZONA

BROWN AND
 CALDWELL



EXPLANATION

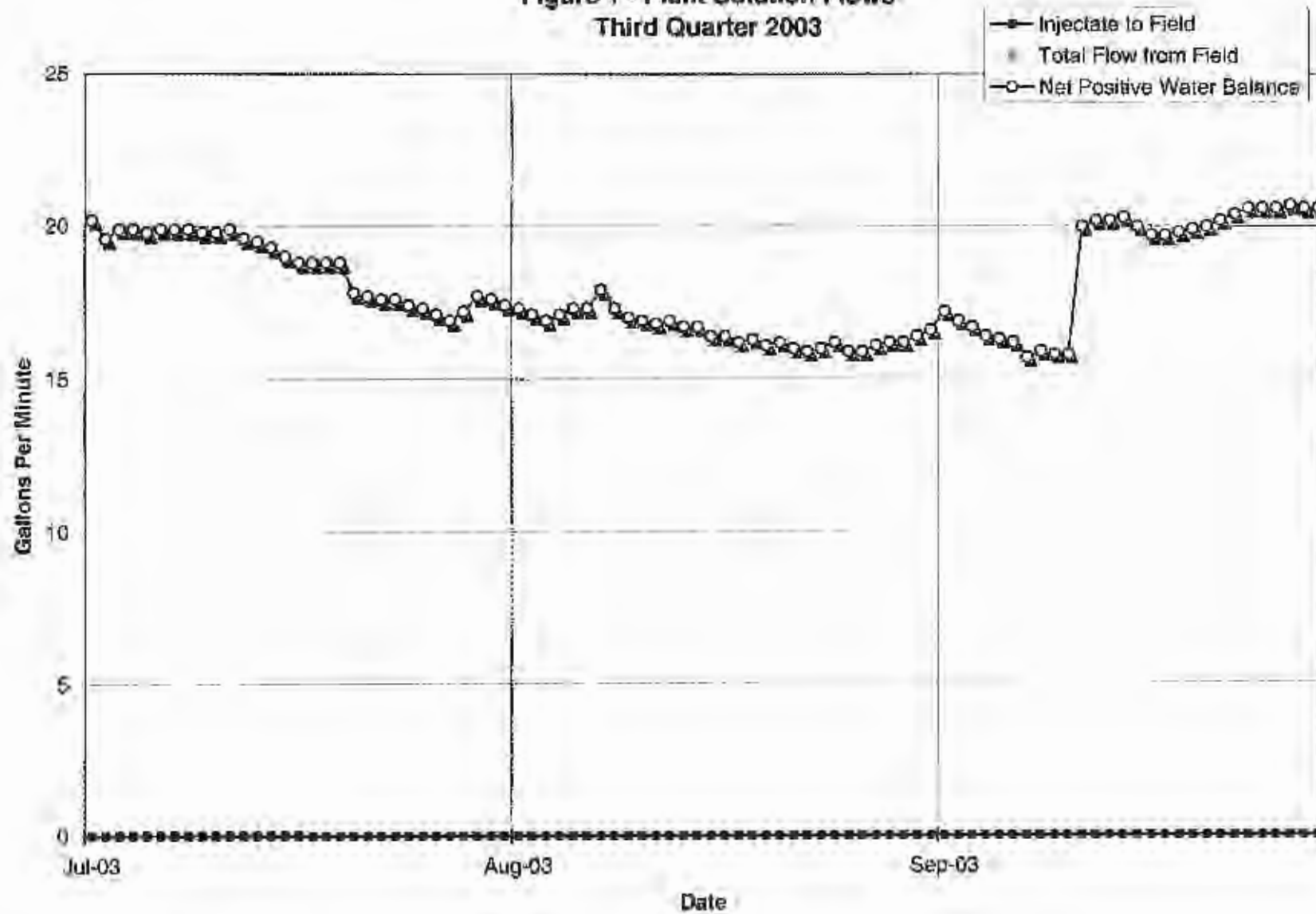
- BHP-10 PUMPING WELL (CURRENTLY INACTIVE)
- OWB-2 OBSERVATION WELL
- ▲ BHP-8 INJECTION / RECOVERY WELL (RECOVERY MODE SINCE 1998)

BROWN AND
CALDWELL

Figure 2
WELLFIELD LAYOUT
MERRILL MINING, L.L.C.,
FLORENCE, ARIZONA

ATTACHMENT 1
MINE OPERATIONS MONITORING

Figure 1 - Plant Solution Flows
Third Quarter 2003



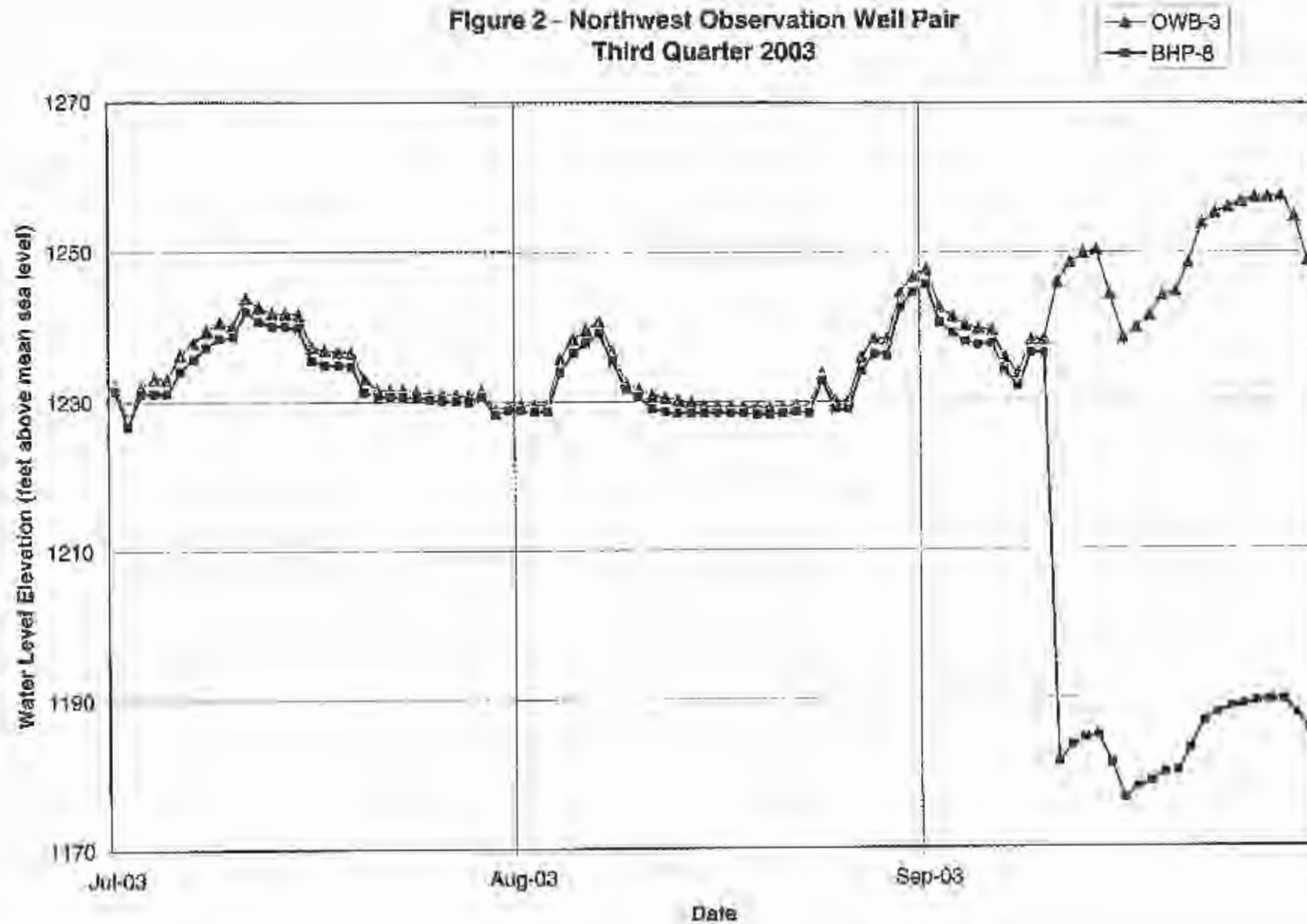
Plant Solution Flows - Daily Averages
Third Quarter 2003

| Date | Injectate to Field (gpm) | BHP-6 (gpm) | BHP-7 (gpm) | BHP-8 (gpm) | BHP-9 (gpm) | Total Flow from Field (gpm) | Net Positive Water Balance (gpm) | Maintained Hydrologic Control (Yes/No) |
|-----------|--------------------------|-------------|-------------|-------------|-------------|-----------------------------|----------------------------------|--|
| 7/1/2003 | 0 | 0.0 | 8.2 | 0.0 | 12.0 | 20.2 | 20.2 | Yes |
| 7/2/2003 | 0 | 0.0 | 7.9 | 0.0 | 11.7 | 19.6 | 19.6 | Yes |
| 7/3/2003 | 0 | 0.0 | 8.0 | 0.0 | 11.9 | 19.9 | 19.9 | Yes |
| 7/4/2003 | 0 | 0.0 | 8.0 | 0.0 | 11.9 | 19.9 | 19.9 | Yes |
| 7/5/2003 | 0 | 0.0 | 7.8 | 0.0 | 12.0 | 19.8 | 19.8 | Yes |
| 7/6/2003 | 0 | 0.0 | 7.8 | 0.0 | 12.1 | 19.9 | 19.9 | Yes |
| 7/7/2003 | 0 | 0.0 | 7.8 | 0.0 | 12.1 | 19.9 | 19.9 | Yes |
| 7/8/2003 | 0 | 0.0 | 7.8 | 0.0 | 12.1 | 19.9 | 19.9 | Yes |
| 7/9/2003 | 0 | 0.0 | 7.6 | 0.0 | 12.2 | 19.8 | 19.8 | Yes |
| 7/10/2003 | 0 | 0.0 | 7.6 | 0.0 | 12.2 | 19.8 | 19.8 | Yes |
| 7/11/2003 | 0 | 0.0 | 7.5 | 0.0 | 12.4 | 19.9 | 19.9 | Yes |
| 7/12/2003 | 0 | 0.0 | 7.3 | 0.0 | 12.3 | 19.6 | 19.6 | Yes |
| 7/13/2003 | 0 | 0.0 | 7.2 | 0.0 | 12.3 | 19.5 | 19.5 | Yes |
| 7/14/2003 | 0 | 0.0 | 7.0 | 0.0 | 12.3 | 19.3 | 19.3 | Yes |
| 7/15/2003 | 0 | 0.0 | 6.8 | 0.0 | 12.2 | 19.0 | 19.0 | Yes |
| 7/16/2003 | 0 | 0.0 | 6.6 | 0.0 | 12.2 | 18.8 | 18.8 | Yes |
| 7/17/2003 | 0 | 0.0 | 6.6 | 0.0 | 12.2 | 18.8 | 18.8 | Yes |
| 7/18/2003 | 0 | 0.0 | 6.6 | 0.0 | 12.2 | 18.8 | 18.8 | Yes |
| 7/19/2003 | 0 | 0.0 | 6.6 | 0.0 | 12.2 | 18.8 | 18.8 | Yes |
| 7/20/2003 | 0 | 0.0 | 5.8 | 0.0 | 12.0 | 17.8 | 17.8 | Yes |
| 7/21/2003 | 0 | 0.0 | 5.7 | 0.0 | 12.0 | 17.7 | 17.7 | Yes |
| 7/22/2003 | 0 | 0.0 | 5.6 | 0.0 | 12.0 | 17.6 | 17.6 | Yes |
| 7/23/2003 | 0 | 0.0 | 5.6 | 0.0 | 12.0 | 17.6 | 17.6 | Yes |
| 7/24/2003 | 0 | 0.0 | 5.4 | 0.0 | 12.0 | 17.4 | 17.4 | Yes |
| 7/25/2003 | 0 | 0.0 | 5.4 | 0.0 | 11.9 | 17.3 | 17.3 | Yes |
| 7/26/2003 | 0 | 0.0 | 5.2 | 0.0 | 11.9 | 17.1 | 17.1 | Yes |
| 7/27/2003 | 0 | 0.0 | 5.0 | 0.0 | 11.9 | 16.9 | 16.9 | Yes |
| 7/28/2003 | 0 | 0.0 | 5.2 | 0.0 | 12.0 | 17.2 | 17.2 | Yes |
| 7/29/2003 | 0 | 0.0 | 5.7 | 0.0 | 12.0 | 17.7 | 17.7 | Yes |
| 7/30/2003 | 0 | 0.0 | 5.7 | 0.0 | 11.9 | 17.6 | 17.6 | Yes |
| 7/31/2003 | 0 | 0.0 | 5.5 | 0.0 | 11.9 | 17.4 | 17.4 | Yes |
| 8/1/2003 | 0 | 0.0 | 5.3 | 0.0 | 12.0 | 17.3 | 17.3 | Yes |
| 8/2/2003 | 0 | 0.0 | 5.2 | 0.0 | 11.9 | 17.1 | 17.1 | Yes |
| 8/3/2003 | 0 | 0.0 | 5.0 | 0.0 | 11.9 | 16.9 | 16.9 | Yes |
| 8/4/2003 | 0 | 0.0 | 5.0 | 0.0 | 12.1 | 17.1 | 17.1 | Yes |
| 8/5/2003 | 0 | 0.0 | 5.1 | 0.0 | 12.2 | 17.3 | 17.3 | Yes |
| 8/6/2003 | 0 | 0.0 | 5.1 | 0.0 | 12.2 | 17.3 | 17.3 | Yes |
| 8/7/2003 | 0 | 0.0 | 5.6 | 0.0 | 12.3 | 17.9 | 17.9 | Yes |
| 8/8/2003 | 0 | 0.0 | 5.2 | 0.0 | 12.1 | 17.3 | 17.3 | Yes |
| 8/9/2003 | 0 | 0.0 | 5.1 | 0.0 | 11.9 | 17.0 | 17.0 | Yes |
| 8/10/2003 | 0 | 0.0 | 4.9 | 0.0 | 12.0 | 16.9 | 16.9 | Yes |
| 8/11/2003 | 0 | 0.0 | 4.8 | 0.0 | 12.0 | 16.8 | 16.8 | Yes |
| 8/12/2003 | 0 | 0.0 | 4.9 | 0.0 | 12.0 | 16.9 | 16.9 | Yes |
| 8/13/2003 | 0 | 0.0 | 4.7 | 0.0 | 12.0 | 16.7 | 16.7 | Yes |
| 8/14/2003 | 0 | 0.0 | 4.7 | 0.0 | 12.0 | 16.7 | 16.7 | Yes |
| 8/15/2003 | 0 | 0.0 | 4.5 | 0.0 | 11.9 | 16.4 | 16.4 | Yes |
| 8/16/2003 | 0 | 0.0 | 4.5 | 0.0 | 11.9 | 16.4 | 16.4 | Yes |
| 8/17/2003 | 0 | 0.0 | 4.3 | 0.0 | 11.9 | 16.2 | 16.2 | Yes |

Plant Solution Flows - Daily Averages
Third Quarter 2003

| Date | Injectate to Field (gpm) | BHP-6 (gpm) | BHP-7 (gpm) | BHP-8 (gpm) | BHP-9 (gpm) | Total Flow from Field (gpm) | Net Positive Water Balance (gpm) | Maintained Hydrologic Control (Yes/No) |
|-----------|--------------------------|-------------|-------------|-------------|-------------|-----------------------------|----------------------------------|--|
| 8/18/2003 | 0 | 0.0 | 4.4 | 0.0 | 11.9 | 16.3 | 16.3 | Yes |
| 8/19/2003 | 0 | 0.0 | 4.2 | 0.0 | 11.9 | 16.1 | 16.1 | Yes |
| 8/20/2003 | 0 | 0.0 | 4.3 | 0.0 | 11.9 | 16.2 | 16.2 | Yes |
| 8/21/2003 | 0 | 0.0 | 4.1 | 0.0 | 11.9 | 16.0 | 16.0 | Yes |
| 8/22/2003 | 0 | 0.0 | 4.1 | 0.0 | 11.8 | 15.9 | 15.9 | Yes |
| 8/23/2003 | 0 | 0.0 | 4.2 | 0.0 | 11.8 | 16.0 | 16.0 | Yes |
| 8/24/2003 | 0 | 0.0 | 4.2 | 0.0 | 12.0 | 16.2 | 16.2 | Yes |
| 8/25/2003 | 0 | 0.0 | 4.0 | 0.0 | 11.9 | 15.9 | 15.9 | Yes |
| 8/26/2003 | 0 | 0.0 | 4.0 | 0.0 | 11.9 | 15.9 | 15.9 | Yes |
| 8/27/2003 | 0 | 0.0 | 4.1 | 0.0 | 12.0 | 16.1 | 16.1 | Yes |
| 8/28/2003 | 0 | 0.0 | 4.1 | 0.0 | 12.1 | 16.2 | 16.2 | Yes |
| 8/29/2003 | 0 | 0.0 | 4.1 | 0.0 | 12.1 | 16.2 | 16.2 | Yes |
| 8/30/2003 | 0 | 0.0 | 4.1 | 0.0 | 12.3 | 16.4 | 16.4 | Yes |
| 8/31/2003 | 0 | 0.0 | 4.2 | 0.0 | 12.4 | 16.6 | 16.6 | Yes |
| 9/1/2003 | 0 | 0.0 | 4.8 | 0.0 | 12.4 | 17.2 | 17.2 | Yes |
| 9/2/2003 | 0 | 0.0 | 4.5 | 0.0 | 12.4 | 16.9 | 16.9 | Yes |
| 9/3/2003 | 0 | 0.0 | 4.3 | 0.0 | 12.4 | 16.7 | 16.7 | Yes |
| 9/4/2003 | 0 | 0.0 | 4.1 | 0.0 | 12.3 | 16.4 | 16.4 | Yes |
| 9/5/2003 | 0 | 0.0 | 4.0 | 0.0 | 12.3 | 16.3 | 16.3 | Yes |
| 9/6/2003 | 0 | 0.0 | 3.9 | 0.0 | 12.3 | 16.2 | 16.2 | Yes |
| 9/7/2003 | 0 | 0.0 | 3.6 | 0.0 | 12.1 | 15.7 | 15.7 | Yes |
| 9/8/2003 | 0 | 0.0 | 3.7 | 0.0 | 12.2 | 15.9 | 15.9 | Yes |
| 9/9/2003 | 0 | 0.0 | 3.5 | 0.0 | 12.3 | 15.8 | 15.8 | Yes |
| 9/10/2003 | 0 | 0.0 | 3.5 | 0.0 | 12.3 | 15.8 | 15.8 | Yes |
| 9/11/2003 | 0 | 0.0 | 0.0 | 7.5 | 12.5 | 20.0 | 20.0 | Yes |
| 9/12/2003 | 0 | 0.0 | 0.0 | 7.6 | 12.6 | 20.2 | 20.2 | Yes |
| 9/13/2003 | 0 | 0.0 | 0.0 | 7.6 | 12.6 | 20.2 | 20.2 | Yes |
| 9/14/2003 | 0 | 0.0 | 0.0 | 7.6 | 12.7 | 20.3 | 20.3 | Yes |
| 9/15/2003 | 0 | 0.0 | 0.0 | 7.5 | 12.5 | 20.0 | 20.0 | Yes |
| 9/16/2003 | 0 | 0.0 | 0.0 | 7.4 | 12.3 | 19.7 | 19.7 | Yes |
| 9/17/2003 | 0 | 0.0 | 0.0 | 7.4 | 12.3 | 19.7 | 19.7 | Yes |
| 9/18/2003 | 0 | 0.0 | 0.0 | 7.4 | 12.4 | 19.8 | 19.8 | Yes |
| 9/19/2003 | 0 | 0.0 | 0.0 | 7.5 | 12.4 | 19.9 | 19.9 | Yes |
| 9/20/2003 | 0 | 0.0 | 0.0 | 7.5 | 12.5 | 20.0 | 20.0 | Yes |
| 9/21/2003 | 0 | 0.0 | 0.0 | 7.6 | 12.6 | 20.2 | 20.2 | Yes |
| 9/22/2003 | 0 | 0.0 | 0.0 | 7.7 | 12.7 | 20.4 | 20.4 | Yes |
| 9/23/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/24/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/25/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/26/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.9 | 20.7 | 20.7 | Yes |
| 9/27/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/28/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/29/2003 | 0 | 0.0 | 0.0 | 7.8 | 12.8 | 20.6 | 20.6 | Yes |
| 9/30/2003 | 0 | 0.0 | 0.0 | 7.7 | 12.7 | 20.4 | 20.4 | Yes |

Figure 2 - Northwest Observation Well Pair
Third Quarter 2003



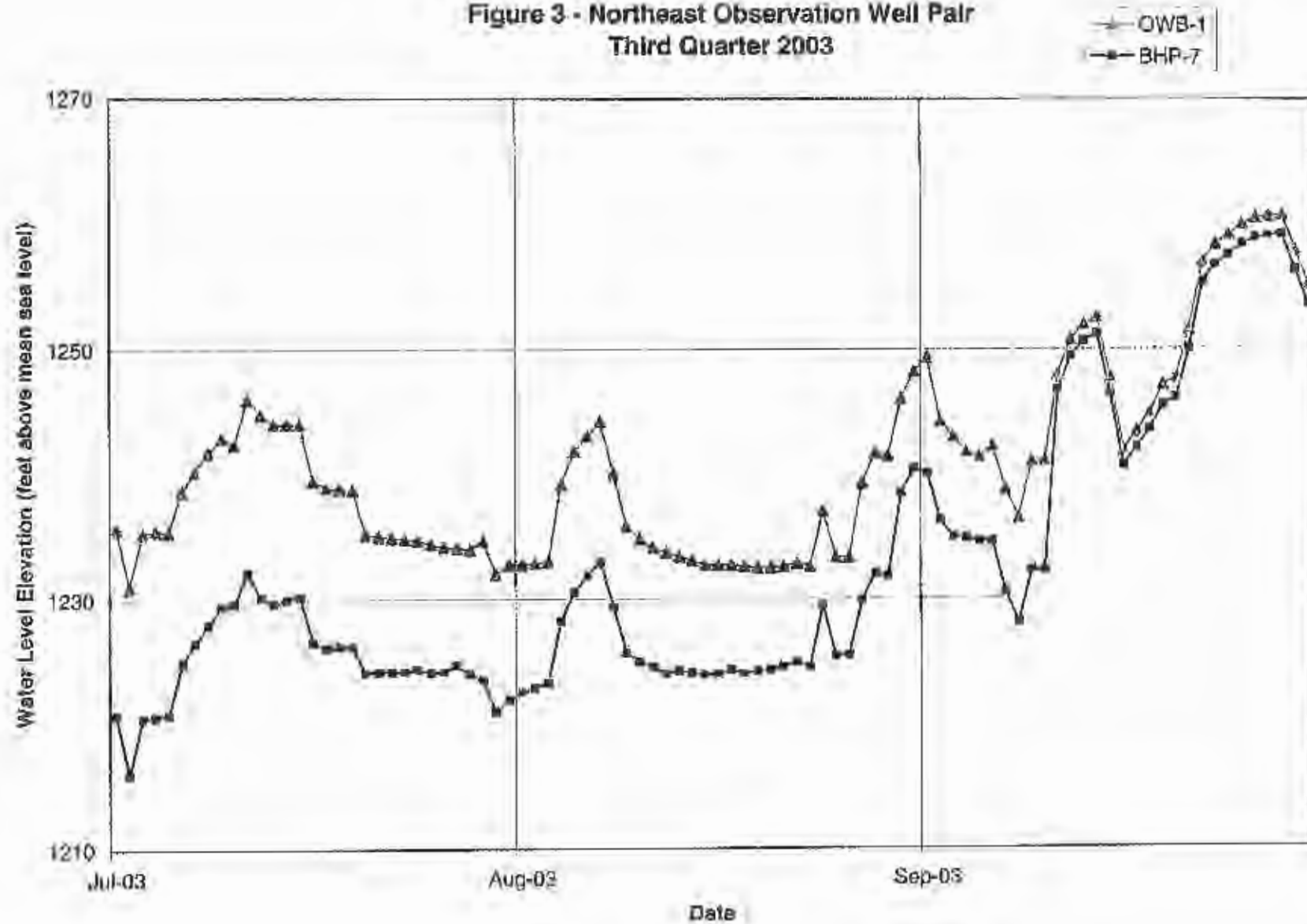
**Northwest Observation Well Pair
Third Quarter 2003**

| Date | BHP-8 | OWB-3 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|--------------------------------------|--------------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 7/1/2003 | 1231.5 | 1232.4 | -0.9 | Yes |
| 7/2/2003 | 1226.8 | 1227.7 | -0.9 | Yes |
| 7/3/2003 | 1231.1 | 1232 | -0.9 | Yes |
| 7/4/2003 | 1231.2 | 1233.2 | -2 | Yes |
| 7/5/2003 | 1231.1 | 1233.1 | -2 | Yes |
| 7/6/2003 | 1234.2 | 1236.3 | -2.1 | Yes |
| 7/7/2003 | 1235.8 | 1237.9 | -2.1 | Yes |
| 7/8/2003 | 1237.3 | 1239.4 | -2.1 | Yes |
| 7/9/2003 | 1238.5 | 1240.6 | -2.1 | Yes |
| 7/10/2003 | 1238.7 | 1240 | -1.3 | Yes |
| 7/11/2003 | 1242 | 1243.9 | -1.9 | Yes |
| 7/12/2003 | 1240.7 | 1242.6 | -1.9 | Yes |
| 7/13/2003 | 1240 | 1241.8 | -1.8 | Yes |
| 7/14/2003 | 1240 | 1241.8 | -1.8 | Yes |
| 7/15/2003 | 1239.8 | 1241.6 | -1.8 | Yes |
| 7/16/2003 | 1235.5 | 1237.3 | -1.8 | Yes |
| 7/17/2003 | 1235 | 1236.9 | -1.9 | Yes |
| 7/18/2003 | 1234.9 | 1236.7 | -1.8 | Yes |
| 7/19/2003 | 1234.3 | 1236.6 | -1.8 | Yes |
| 7/20/2003 | 1231.5 | 1233.1 | -1.8 | Yes |
| 7/21/2003 | 1230.8 | 1231.7 | -0.9 | Yes |
| 7/22/2003 | 1230.7 | 1231.6 | -0.9 | Yes |
| 7/23/2003 | 1230.7 | 1231.5 | -0.8 | Yes |
| 7/24/2003 | 1230.6 | 1231.4 | -0.8 | Yes |
| 7/25/2003 | 1230.3 | 1231.1 | -0.8 | Yes |
| 7/26/2003 | 1230.2 | 1231 | -0.8 | Yes |
| 7/27/2003 | 1230.1 | 1230.9 | -0.8 | Yes |
| 7/28/2003 | 1230 | 1230.8 | -0.8 | Yes |
| 7/29/2003 | 1230.7 | 1231.5 | -0.8 | Yes |
| 7/30/2003 | 1228.2 | 1228.8 | -0.6 | Yes |
| 7/31/2003 | 1228.9 | 1229.6 | -0.7 | Yes |
| 8/1/2003 | 1228.9 | 1229.6 | -0.7 | Yes |
| 8/2/2003 | 1228.6 | 1229.5 | -0.9 | Yes |
| 8/3/2003 | 1228.7 | 1229.6 | -0.9 | Yes |
| 8/4/2003 | 1234 | 1235.7 | -1.7 | Yes |
| 8/5/2003 | 1236.42 | 1238.3 | -1.88 | Yes |
| 8/6/2003 | 1237.8 | 1239.5 | -1.7 | Yes |
| 8/7/2003 | 1239 | 1240.7 | -1.7 | Yes |
| 8/8/2003 | 1235.4 | 1236.6 | -1.2 | Yes |
| 8/9/2003 | 1231.7 | 1232.5 | -0.8 | Yes |
| 8/10/2003 | 1230.7 | 1231.6 | -0.9 | Yes |
| 8/11/2003 | 1229 | 1230.9 | -1.9 | Yes |
| 8/12/2003 | 1228.6 | 1230.5 | -1.9 | Yes |
| 8/13/2003 | 1228.4 | 1230.2 | -1.8 | Yes |
| 8/14/2003 | 1228.4 | 1229.8 | -1.4 | Yes |
| 8/15/2003 | 1228.5 | 1229.4 | -0.9 | Yes |

**Northwest Observation Well Pair
Third Quarter 2003**

| Date | RHP-8 | OWB-3 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|--------------------------------------|--------------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 8/16/2003 | 1228.5 | 1229.4 | -0.9 | Yes |
| 8/17/2003 | 1228.5 | 1229.4 | -0.9 | Yes |
| 8/18/2003 | 1228.4 | 1229.3 | -0.9 | Yes |
| 8/19/2003 | 1228.3 | 1229.2 | -0.9 | Yes |
| 8/20/2003 | 1228.3 | 1229.2 | -0.9 | Yes |
| 8/21/2003 | 1228.4 | 1229.3 | -0.9 | Yes |
| 8/22/2003 | 1228.6 | 1229.5 | -0.9 | Yes |
| 8/23/2003 | 1228.5 | 1229.3 | -0.8 | Yes |
| 8/24/2003 | 1232.7 | 1233.7 | -1 | Yes |
| 8/25/2003 | 1228.9 | 1230 | -1.1 | Yes |
| 8/26/2003 | 1228.9 | 1230 | -1.1 | Yes |
| 8/27/2003 | 1234 | 1235.9 | -1.9 | Yes |
| 8/28/2003 | 1236.3 | 1238.3 | -2 | Yes |
| 8/29/2003 | 1236.1 | 1238.2 | -2.1 | Yes |
| 8/30/2003 | 1242.5 | 1244.4 | -1.9 | Yes |
| 8/31/2003 | 1244.5 | 1246.6 | -2.1 | Yes |
| 9/1/2003 | 1245.5 | 1247.6 | -2.1 | Yes |
| 9/2/2003 | 1240.4 | 1242.5 | -2.1 | Yes |
| 9/3/2003 | 1239.1 | 1241.2 | -2.1 | Yes |
| 9/4/2003 | 1237.9 | 1240 | -2.1 | Yes |
| 9/5/2003 | 1237.5 | 1239.6 | -2.1 | Yes |
| 9/6/2003 | 1237.6 | 1239.4 | -1.8 | Yes |
| 9/7/2003 | 1234.1 | 1235.8 | -1.7 | Yes |
| 9/8/2003 | 1231.9 | 1233.6 | -1.7 | Yes |
| 9/9/2003 | 1236.4 | 1238.1 | -1.7 | Yes |
| 9/10/2003 | 1236.3 | 1238.2 | -1.9 | Yes |
| 9/11/2003 | 1181.5 | 1245.8 | -64.3 | Yes |
| 9/12/2003 | 1183.7 | 1248.5 | -64.8 | Yes |
| 9/13/2003 | 1184.6 | 1249.7 | -65.1 | Yes |
| 9/14/2003 | 1185 | 1250.3 | -65.3 | Yes |
| 9/15/2003 | 1181.3 | 1244.2 | -62.9 | Yes |
| 9/16/2003 | 1176.6 | 1238.3 | -61.7 | Yes |
| 9/17/2003 | 1178.1 | 1239.8 | -61.7 | Yes |
| 9/18/2003 | 1178.8 | 1241.3 | -62.5 | Yes |
| 9/19/2003 | 1180 | 1244 | -64 | Yes |
| 9/20/2003 | 1180.3 | 1244.6 | -64.3 | Yes |
| 9/21/2003 | 1183.3 | 1248.5 | -65.2 | Yes |
| 9/22/2003 | 1186.8 | 1253.8 | -67 | Yes |
| 9/23/2003 | 1187.9 | 1255.2 | -67.3 | Yes |
| 9/24/2003 | 1188.7 | 1256 | -67.3 | Yes |
| 9/25/2003 | 1189 | 1256.8 | -67.8 | Yes |
| 9/26/2003 | 1189.5 | 1257.3 | -67.8 | Yes |
| 9/27/2003 | 1189.7 | 1257.4 | -67.7 | Yes |
| 9/28/2003 | 1189.7 | 1257.5 | -67.8 | Yes |
| 9/29/2003 | 1187.8 | 1254.7 | -66.9 | Yes |
| 9/30/2003 | 1185.8 | 1248.8 | -63 | Yes |

Figure 3 - Northeast Observation Well Pair
Third Quarter 2003



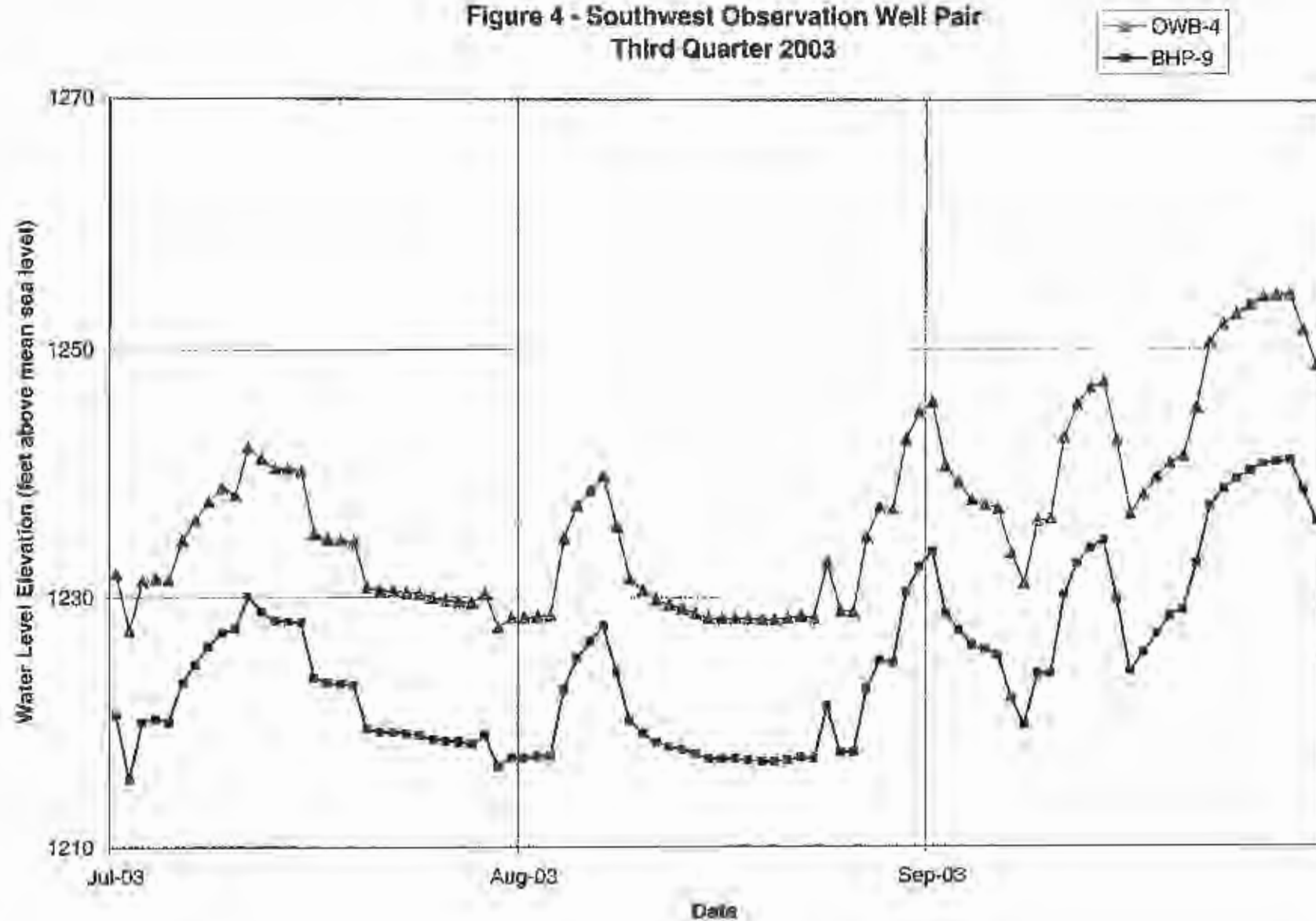
**Northeast Observation Well Pair
Third Quarter 2003**

| Date | BHP-7 | OWB-1 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|-----------------------------------|-----------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 7/1/2003 | 1220.7 | 1235.7 | -15 | Yes |
| 7/2/2003 | 1216 | 1231 | -15 | Yes |
| 7/3/2003 | 1220.5 | 1235.3 | -14.8 | Yes |
| 7/4/2003 | 1220.6 | 1235.5 | -14.9 | Yes |
| 7/5/2003 | 1220.8 | 1235.4 | -14.6 | Yes |
| 7/6/2003 | 1224.9 | 1238.6 | -13.7 | Yes |
| 7/7/2003 | 1226.5 | 1240.2 | -13.7 | Yes |
| 7/8/2003 | 1228 | 1241.7 | -13.7 | Yes |
| 7/9/2003 | 1229.4 | 1242.9 | -13.5 | Yes |
| 7/10/2003 | 1229.7 | 1242.4 | -12.7 | Yes |
| 7/11/2003 | 1232.2 | 1246 | -13.8 | Yes |
| 7/12/2003 | 1230.2 | 1244.8 | -14.6 | Yes |
| 7/13/2003 | 1229.7 | 1244 | -14.3 | Yes |
| 7/14/2003 | 1230 | 1244 | -14 | Yes |
| 7/15/2003 | 1230.2 | 1244 | -13.8 | Yes |
| 7/16/2003 | 1226.6 | 1239.4 | -12.8 | Yes |
| 7/17/2003 | 1226.1 | 1238.9 | -12.8 | Yes |
| 7/18/2003 | 1226.2 | 1238.8 | -12.6 | Yes |
| 7/19/2003 | 1226.2 | 1238.7 | -12.5 | Yes |
| 7/20/2003 | 1224.1 | 1235.2 | -11.1 | Yes |
| 7/21/2003 | 1224.2 | 1235 | -10.8 | Yes |
| 7/22/2003 | 1224.2 | 1234.9 | -10.7 | Yes |
| 7/23/2003 | 1224.2 | 1234.8 | -10.6 | Yes |
| 7/24/2003 | 1224.4 | 1234.7 | -10.3 | Yes |
| 7/25/2003 | 1224.1 | 1234.4 | -10.3 | Yes |
| 7/26/2003 | 1224.2 | 1234.2 | -10 | Yes |
| 7/27/2003 | 1224.7 | 1234.1 | -9.4 | Yes |
| 7/28/2003 | 1224 | 1234 | -10 | Yes |
| 7/29/2003 | 1223.5 | 1234.7 | -11.2 | Yes |
| 7/30/2003 | 1221 | 1232 | -11 | Yes |
| 7/31/2003 | 1222 | 1232.8 | -10.8 | Yes |
| 8/1/2003 | 1222.5 | 1232.8 | -10.3 | Yes |
| 8/2/2003 | 1222.9 | 1232.9 | -10 | Yes |
| 8/3/2003 | 1223.3 | 1233 | -9.7 | Yes |
| 8/4/2003 | 1228.3 | 1239.1 | -10.8 | Yes |
| 8/5/2003 | 1230.6 | 1241.8 | -11.2 | Yes |
| 8/6/2003 | 1231.9 | 1243 | -11.1 | Yes |
| 8/7/2003 | 1233 | 1244.2 | -11.2 | Yes |
| 8/8/2003 | 1229.4 | 1240 | -10.6 | Yes |
| 8/9/2003 | 1225.7 | 1235.8 | -10.1 | Yes |
| 8/10/2003 | 1225 | 1234.8 | -9.8 | Yes |
| 8/11/2003 | 1224.6 | 1234.1 | -9.5 | Yes |
| 8/12/2003 | 1224 | 1233.7 | -9.7 | Yes |
| 8/13/2003 | 1224.2 | 1233.4 | -9.2 | Yes |
| 8/14/2003 | 1224.1 | 1233.1 | -9 | Yes |
| 8/15/2003 | 1223.9 | 1232.7 | -8.8 | Yes |

**Northeast Observation Well Pair
Third Quarter 2003**

| Date | BHP-7 | OWB-1 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|-----------------------------------|-----------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 8/16/2003 | 1224 | 1232.7 | -8.7 | Yes |
| 8/17/2003 | 1224.3 | 1232.7 | -8.4 | Yes |
| 8/18/2003 | 1224 | 1232.6 | -8.6 | Yes |
| 8/19/2003 | 1224.2 | 1232.5 | -8.3 | Yes |
| 8/20/2003 | 1224.3 | 1232.5 | -8.2 | Yes |
| 8/21/2003 | 1224.6 | 1232.6 | -8 | Yes |
| 8/22/2003 | 1224.9 | 1232.8 | -7.9 | Yes |
| 8/23/2003 | 1224.5 | 1232.6 | -8.1 | Yes |
| 8/24/2003 | 1229.5 | 1237 | -7.5 | Yes |
| 8/25/2003 | 1225.4 | 1233.3 | -7.9 | Yes |
| 8/26/2003 | 1225.5 | 1233.3 | -7.8 | Yes |
| 8/27/2003 | 1229.9 | 1239.2 | -9.3 | Yes |
| 8/28/2003 | 1232 | 1241.6 | -9.6 | Yes |
| 8/29/2003 | 1231.8 | 1241.4 | -9.6 | Yes |
| 8/30/2003 | 1238.4 | 1246 | -7.6 | Yes |
| 8/31/2003 | 1240.3 | 1248.2 | -7.9 | Yes |
| 9/1/2003 | 1240 | 1249.3 | -9.3 | Yes |
| 9/2/2003 | 1236.2 | 1244.2 | -8 | Yes |
| 9/3/2003 | 1234.9 | 1242.9 | -8 | Yes |
| 9/4/2003 | 1234.8 | 1241.7 | -6.9 | Yes |
| 9/5/2003 | 1234.6 | 1241.3 | -6.7 | Yes |
| 9/6/2003 | 1234.5 | 1242.2 | -7.7 | Yes |
| 9/7/2003 | 1230.5 | 1238.6 | -8.1 | Yes |
| 9/8/2003 | 1228.1 | 1236.4 | -8.3 | Yes |
| 9/9/2003 | 1232.3 | 1240.9 | -8.6 | Yes |
| 9/10/2003 | 1232.2 | 1241 | -8.8 | Yes |
| 9/11/2003 | 1246.7 | 1248 | -1.3 | Yes |
| 9/12/2003 | 1249.4 | 1250.7 | -1.3 | Yes |
| 9/13/2003 | 1250.6 | 1251.9 | -1.3 | Yes |
| 9/14/2003 | 1251.2 | 1252.5 | -1.3 | Yes |
| 9/15/2003 | 1246.4 | 1247.7 | -1.3 | Yes |
| 9/16/2003 | 1240.5 | 1241.8 | -1.3 | Yes |
| 9/17/2003 | 1242 | 1243.3 | -1.3 | Yes |
| 9/18/2003 | 1243.5 | 1244.8 | -1.3 | Yes |
| 9/19/2003 | 1245.5 | 1247.1 | -1.6 | Yes |
| 9/20/2003 | 1246.1 | 1247.7 | -1.6 | Yes |
| 9/21/2003 | 1250 | 1251.6 | -1.6 | Yes |
| 9/22/2003 | 1255.3 | 1256.9 | -1.6 | Yes |
| 9/23/2003 | 1256.7 | 1258.3 | -1.6 | Yes |
| 9/24/2003 | 1257.5 | 1259.1 | -1.6 | Yes |
| 9/25/2003 | 1258.3 | 1259.9 | -1.6 | Yes |
| 9/26/2003 | 1258.8 | 1260.4 | -1.6 | Yes |
| 9/27/2003 | 1259 | 1260.6 | -1.6 | Yes |
| 9/28/2003 | 1259.1 | 1260.7 | -1.6 | Yes |
| 9/29/2003 | 1256.3 | 1257.9 | -1.6 | Yes |
| 9/30/2003 | 1253.5 | 1255.1 | -1.6 | Yes |

Figure 4 - Southwest Observation Well Pair
Third Quarter 2003



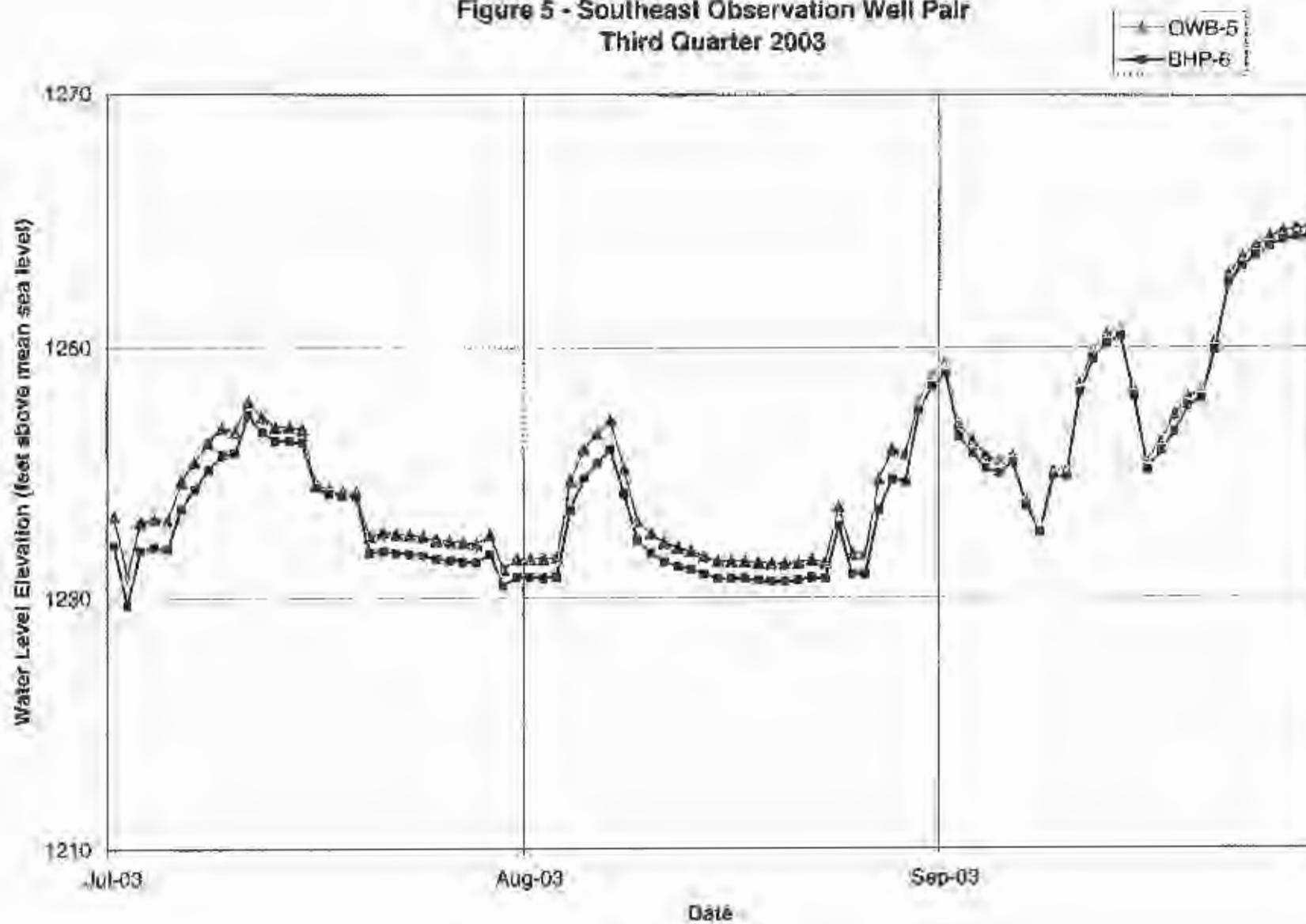
**Southwest Observation Well Pair
Third Quarter 2003**

| Date | BHP-9 | OWB-4 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|---|---|---------------------------|-------------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 7/1/2003 | 1220.6 | 1231.9 | -11.3 | Yes |
| 7/2/2003 | 1215.5 | 1227.4 | -11.9 | Yes |
| 7/3/2003 | 1220.1 | 1231.3 | -11.2 | Yes |
| 7/4/2003 | 1220.3 | 1231.5 | -11.2 | Yes |
| 7/5/2003 | 1220.1 | 1231.4 | -11.3 | Yes |
| 7/6/2003 | 1223.2 | 1234.6 | -11.4 | Yes |
| 7/7/2003 | 1224.7 | 1236.2 | -11.5 | Yes |
| 7/8/2003 | 1226.1 | 1237.7 | -11.6 | Yes |
| 7/9/2003 | 1227.2 | 1238.9 | -11.7 | Yes |
| 7/10/2003 | 1227.5 | 1238.2 | -10.7 | Yes |
| 7/11/2003 | 1230.1 | 1242.1 | -12 | Yes |
| 7/12/2003 | 1228.9 | 1241.2 | -12.3 | Yes |
| 7/13/2003 | 1228.2 | 1240.4 | -12.2 | Yes |
| 7/14/2003 | 1228.1 | 1240.4 | -12.3 | Yes |
| 7/15/2003 | 1228 | 1240.2 | -12.2 | Yes |
| 7/16/2003 | 1223.6 | 1235.1 | -11.5 | Yes |
| 7/17/2003 | 1223.2 | 1234.7 | -11.5 | Yes |
| 7/18/2003 | 1223.1 | 1234.6 | -11.5 | Yes |
| 7/19/2003 | 1223 | 1234.5 | -11.5 | Yes |
| 7/20/2003 | 1219.5 | 1230.8 | -11.3 | Yes |
| 7/21/2003 | 1219.3 | 1230.6 | -11.3 | Yes |
| 7/22/2003 | 1219.3 | 1230.5 | -11.2 | Yes |
| 7/23/2003 | 1219.2 | 1230.4 | -11.2 | Yes |
| 7/24/2003 | 1219 | 1230.3 | -11.3 | Yes |
| 7/25/2003 | 1218.7 | 1230 | -11.3 | Yes |
| 7/26/2003 | 1218.6 | 1229.8 | -11.2 | Yes |
| 7/27/2003 | 1218.5 | 1229.7 | -11.2 | Yes |
| 7/28/2003 | 1218.3 | 1229.6 | -11.3 | Yes |
| 7/29/2003 | 1219 | 1230.3 | -11.3 | Yes |
| 7/30/2003 | 1216.5 | 1227.6 | -11.1 | Yes |
| 7/31/2003 | 1217.2 | 1228.4 | -11.2 | Yes |
| 8/1/2003 | 1217.2 | 1228.4 | -11.2 | Yes |
| 8/2/2003 | 1217.3 | 1228.5 | -11.2 | Yes |
| 8/3/2003 | 1217.4 | 1228.6 | -11.2 | Yes |
| 8/4/2003 | 1222.7 | 1234.7 | -12 | Yes |
| 8/5/2003 | 1225.2 | 1237.4 | -12.2 | Yes |
| 8/6/2003 | 1226.5 | 1238.6 | -12.1 | Yes |
| 8/7/2003 | 1227.7 | 1239.8 | -12.1 | Yes |
| 8/8/2003 | 1224 | 1235.7 | -11.7 | Yes |
| 8/9/2003 | 1220.2 | 1231.5 | -11.3 | Yes |
| 8/10/2003 | 1219.2 | 1230.5 | -11.3 | Yes |
| 8/11/2003 | 1218.5 | 1229.8 | -11.3 | Yes |
| 8/12/2003 | 1218.1 | 1229.4 | -11.3 | Yes |
| 8/13/2003 | 1217.9 | 1229.1 | -11.2 | Yes |
| 8/14/2003 | 1217.5 | 1228.7 | -11.2 | Yes |
| 8/15/2003 | 1217.1 | 1228.3 | -11.2 | Yes |

**Southwest Observation Well Pair
Third Quarter 2003**

| Date | BHP-9 | OWB-4 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|-----------------------------------|-----------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 8/16/2003 | 1217.1 | 1228.3 | -11.2 | Yes |
| 8/17/2003 | 1217.1 | 1228.3 | -11.2 | Yes |
| 8/18/2003 | 1217 | 1228.3 | -11.3 | Yes |
| 8/19/2003 | 1216.9 | 1228.2 | -11.3 | Yes |
| 8/20/2003 | 1216.9 | 1228.2 | -11.3 | Yes |
| 8/21/2003 | 1217 | 1228.3 | -11.3 | Yes |
| 8/22/2003 | 1217.2 | 1228.5 | -11.3 | Yes |
| 8/23/2003 | 1217.1 | 1228.3 | -11.2 | Yes |
| 8/24/2003 | 1221.3 | 1232.7 | -11.4 | Yes |
| 8/25/2003 | 1217.6 | 1228.9 | -11.3 | Yes |
| 8/26/2003 | 1217.6 | 1228.8 | -11.2 | Yes |
| 8/27/2003 | 1222.7 | 1234.8 | -12.1 | Yes |
| 8/28/2003 | 1225 | 1237.2 | -12.2 | Yes |
| 8/29/2003 | 1224.8 | 1237 | -12.2 | Yes |
| 8/30/2003 | 1230.4 | 1242.7 | -12.3 | Yes |
| 8/31/2003 | 1232.4 | 1244.9 | -12.5 | Yes |
| 9/1/2003 | 1233.6 | 1245.8 | -12.2 | Yes |
| 9/2/2003 | 1228.7 | 1240.5 | -11.8 | Yes |
| 9/3/2003 | 1227.4 | 1239.2 | -11.8 | Yes |
| 9/4/2003 | 1226.2 | 1237.8 | -11.6 | Yes |
| 9/5/2003 | 1225.8 | 1237.4 | -11.6 | Yes |
| 9/6/2003 | 1225.4 | 1237.1 | -11.7 | Yes |
| 9/7/2003 | 1221.9 | 1233.5 | -11.6 | Yes |
| 9/8/2003 | 1219.8 | 1231.1 | -11.3 | Yes |
| 9/9/2003 | 1223.9 | 1236.1 | -12.2 | Yes |
| 9/10/2003 | 1223.9 | 1236.3 | -12.4 | Yes |
| 9/11/2003 | 1230.1 | 1242.9 | -12.8 | Yes |
| 9/12/2003 | 1232.7 | 1245.6 | -12.9 | Yes |
| 9/13/2003 | 1233.9 | 1246.9 | -13 | Yes |
| 9/14/2003 | 1234.5 | 1247.4 | -12.9 | Yes |
| 9/15/2003 | 1229.8 | 1242.6 | -12.8 | Yes |
| 9/16/2003 | 1224.1 | 1236.7 | -12.6 | Yes |
| 9/17/2003 | 1225.6 | 1238.2 | -12.6 | Yes |
| 9/18/2003 | 1227 | 1239.7 | -12.7 | Yes |
| 9/19/2003 | 1228.5 | 1240.8 | -12.3 | Yes |
| 9/20/2003 | 1229 | 1241.4 | -12.4 | Yes |
| 9/21/2003 | 1232.7 | 1243.3 | -12.6 | Yes |
| 9/22/2003 | 1237.3 | 1250.6 | -13.3 | Yes |
| 9/23/2003 | 1238.7 | 1252 | -13.3 | Yes |
| 9/24/2003 | 1239.5 | 1252.8 | -13.3 | Yes |
| 9/25/2003 | 1240.2 | 1253.6 | -13.4 | Yes |
| 9/26/2003 | 1240.7 | 1254.2 | -13.5 | Yes |
| 9/27/2003 | 1240.9 | 1254.3 | -13.4 | Yes |
| 9/28/2003 | 1241 | 1254.4 | -13.4 | Yes |
| 9/29/2003 | 1238.6 | 1251.6 | -13 | Yes |
| 9/30/2003 | 1236.1 | 1248.8 | -12.7 | Yes |

Figure 5 - Southeast Observation Well Pair
Third Quarter 2003



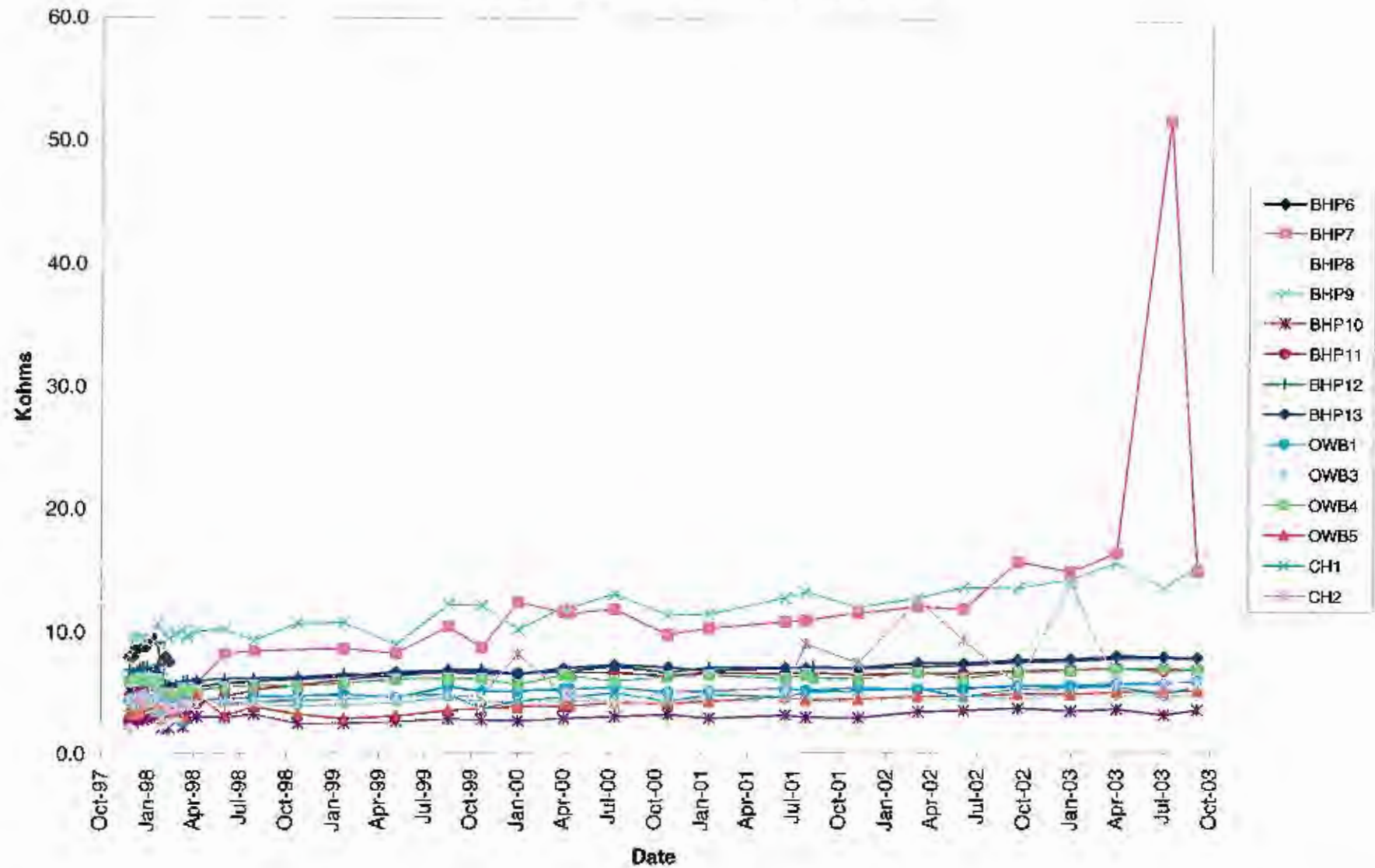
**Southeast Observation Well Pair
Third Quarter 2003**

| Date | BHP-6 | OWB-5 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|--------------------------------------|--------------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 7/1/2003 | 1234.2 | 1236.5 | -2.3 | Yes |
| 7/2/2003 | 1229.5 | 1231.8 | -2.3 | Yes |
| 7/3/2003 | 1233.8 | 1236.1 | -2.3 | Yes |
| 7/4/2003 | 1234 | 1236.3 | -2.3 | Yes |
| 7/5/2003 | 1233.9 | 1236.2 | -2.3 | Yes |
| 7/6/2003 | 1237.1 | 1239.3 | -2.2 | Yes |
| 7/7/2003 | 1238.7 | 1240.9 | -2.2 | Yes |
| 7/8/2003 | 1240.2 | 1242.4 | -2.2 | Yes |
| 7/9/2003 | 1241.4 | 1243.6 | -2.2 | Yes |
| 7/10/2003 | 1241.6 | 1243.3 | -1.7 | Yes |
| 7/11/2003 | 1244.6 | 1245.7 | -1.1 | Yes |
| 7/12/2003 | 1243.3 | 1244.5 | -1.2 | Yes |
| 7/13/2003 | 1242.6 | 1243.7 | -1.1 | Yes |
| 7/14/2003 | 1242.6 | 1243.7 | -1.1 | Yes |
| 7/15/2003 | 1242.4 | 1243.5 | -1.1 | Yes |
| 7/16/2003 | 1238.8 | 1239.1 | -0.3 | Yes |
| 7/17/2003 | 1238.3 | 1238.6 | -0.3 | Yes |
| 7/18/2003 | 1238.2 | 1238.5 | -0.3 | Yes |
| 7/19/2003 | 1238.1 | 1238.4 | -0.3 | Yes |
| 7/20/2003 | 1233.6 | 1234.9 | -1.3 | Yes |
| 7/21/2003 | 1233.7 | 1235.2 | -1.5 | Yes |
| 7/22/2003 | 1233.6 | 1235.1 | -1.5 | Yes |
| 7/23/2003 | 1233.5 | 1235 | -1.5 | Yes |
| 7/24/2003 | 1233.4 | 1234.9 | -1.5 | Yes |
| 7/25/2003 | 1233.1 | 1234.6 | -1.5 | Yes |
| 7/26/2003 | 1233 | 1234.5 | -1.5 | Yes |
| 7/27/2003 | 1232.9 | 1234.4 | -1.5 | Yes |
| 7/28/2003 | 1232.8 | 1234.3 | -1.5 | Yes |
| 7/29/2003 | 1233.5 | 1235 | -1.5 | Yes |
| 7/30/2003 | 1231 | 1232.3 | -1.3 | Yes |
| 7/31/2003 | 1231.7 | 1233.1 | -1.4 | Yes |
| 8/1/2003 | 1231.7 | 1233.1 | -1.4 | Yes |
| 8/2/2003 | 1231.6 | 1233.1 | -1.5 | Yes |
| 8/3/2003 | 1231.7 | 1233.2 | -1.5 | Yes |
| 8/4/2003 | 1237 | 1239.3 | -2.3 | Yes |
| 8/5/2003 | 1239.5 | 1241.9 | -2.4 | Yes |
| 8/6/2003 | 1240.8 | 1243.1 | -2.3 | Yes |
| 8/7/2003 | 1241.9 | 1244.2 | -2.3 | Yes |
| 8/8/2003 | 1238.3 | 1240.3 | -2 | Yes |
| 8/9/2003 | 1234.6 | 1236.1 | -1.5 | Yes |
| 8/10/2003 | 1233.6 | 1235.1 | -1.5 | Yes |
| 8/11/2003 | 1232.9 | 1234.4 | -1.5 | Yes |
| 8/12/2003 | 1232.5 | 1234 | -1.5 | Yes |
| 8/13/2003 | 1232.3 | 1233.7 | -1.4 | Yes |
| 8/14/2003 | 1231.9 | 1233.3 | -1.4 | Yes |
| 8/15/2003 | 1231.5 | 1232.9 | -1.4 | Yes |

**Southeast Observation Well Pair
Third Quarter 2003**

| Date | BHP-6 | OWB-5 | Difference in Gradient | Maintained Hydrologic Control |
|-----------|-----------------------------------|-----------------------------------|------------------------|-------------------------------|
| | Water Level Elevation (feet AMSL) | Water Level Elevation (feet AMSL) | (feet) | (Yes/No) |
| 8/16/2003 | 1231.5 | 1232.9 | -1.4 | Yes |
| 8/17/2003 | 1231.5 | 1232.9 | -1.4 | Yes |
| 8/18/2003 | 1231.4 | 1232.8 | -1.4 | Yes |
| 8/19/2003 | 1231.3 | 1232.7 | -1.4 | Yes |
| 8/20/2003 | 1231.3 | 1232.7 | -1.4 | Yes |
| 8/21/2003 | 1231.4 | 1232.8 | -1.4 | Yes |
| 8/22/2003 | 1231.6 | 1233 | -1.4 | Yes |
| 8/23/2003 | 1231.5 | 1232.8 | -1.3 | Yes |
| 8/24/2003 | 1235.7 | 1237.2 | -1.5 | Yes |
| 8/25/2003 | 1231.9 | 1233.5 | -1.6 | Yes |
| 8/26/2003 | 1231.9 | 1233.5 | -1.6 | Yes |
| 8/27/2003 | 1237 | 1239.4 | -2.4 | Yes |
| 8/28/2003 | 1239.4 | 1241.8 | -2.4 | Yes |
| 8/29/2003 | 1239.2 | 1241.5 | -2.3 | Yes |
| 8/30/2003 | 1244.9 | 1245.7 | -0.8 | Yes |
| 8/31/2003 | 1246.9 | 1247.9 | -1 | Yes |
| 9/1/2003 | 1247.9 | 1248.9 | -1 | Yes |
| 9/2/2003 | 1242.8 | 1243.8 | -1 | Yes |
| 9/3/2003 | 1241.5 | 1242.5 | -1 | Yes |
| 9/4/2003 | 1240.3 | 1241.3 | -1 | Yes |
| 9/5/2003 | 1239.9 | 1240.9 | -1 | Yes |
| 9/6/2003 | 1240.8 | 1241.3 | -0.5 | Yes |
| 9/7/2003 | 1237.3 | 1237.8 | -0.5 | Yes |
| 9/8/2003 | 1235.1 | 1235.6 | -0.5 | Yes |
| 9/9/2003 | 1239.6 | 1240.1 | -0.5 | Yes |
| 9/10/2003 | 1239.6 | 1240.2 | -0.6 | Yes |
| 9/11/2003 | 1246.4 | 1247.1 | -0.7 | Yes |
| 9/12/2003 | 1249.1 | 1249.8 | -0.7 | Yes |
| 9/13/2003 | 1250.3 | 1251 | -0.7 | Yes |
| 9/14/2003 | 1250.9 | 1251.6 | -0.7 | Yes |
| 9/15/2003 | 1246.1 | 1246.8 | -0.7 | Yes |
| 9/16/2003 | 1240.2 | 1240.9 | -0.7 | Yes |
| 9/17/2003 | 1241.7 | 1242.4 | -0.7 | Yes |
| 9/18/2003 | 1243.2 | 1244.6 | -1.4 | Yes |
| 9/19/2003 | 1245.3 | 1246 | -0.7 | Yes |
| 9/20/2003 | 1245.9 | 1246.6 | -0.7 | Yes |
| 9/21/2003 | 1249.8 | 1250.5 | -0.7 | Yes |
| 9/22/2003 | 1255.1 | 1255.8 | -0.7 | Yes |
| 9/23/2003 | 1256.5 | 1257.2 | -0.7 | Yes |
| 9/24/2003 | 1257.3 | 1258 | -0.7 | Yes |
| 9/25/2003 | 1258.1 | 1258.8 | -0.7 | Yes |
| 9/26/2003 | 1258.6 | 1259.3 | -0.7 | Yes |
| 9/27/2003 | 1258.8 | 1259.5 | -0.7 | Yes |
| 9/28/2003 | 1258.9 | 1259.6 | -0.7 | Yes |
| 9/29/2003 | 1256.1 | 1256.8 | -0.7 | Yes |
| 9/30/2003 | 1253.3 | 1254 | -0.7 | Yes |

Figure 6 - Annular Resistivity in Kohms



ATTACHMENT 2

POC QUARTERLY COMPLIANCE MONITORING REPORT

201 East Washington Street
Suite 500
Phoenix, Arizona 85004
Tel: (602) 567-6000
Fax: (602) 567-6001
www.browncaldwell.com

October 23, 2003

BROWN AND
CALDWELL

Mr. Hugh Nowell
Corporate Counsel
Vanguard Properties, Inc.
975 Johnson Ferry Road, Suite 450
Atlanta, Georgia 30342

15-21622.007

Subject: Florence Project
Quarterly Compliance Monitoring Report


Dear Mr. Nowell:

Please find enclosed a final copy of the Florence Project Quarterly Compliance Monitoring Report for the Third Quarter 2003. This report is provided for inclusion in the quarterly submittals required by the Arizona Department of Environmental Quality (ADEQ) and the United States Environmental Protection Agency (USEPA) under Aquifer Protection Permit (APP) Number 101704 and Underground Injection Control (UIC) Permit Number AZ396000001.

If you should have any questions regarding this report, please do not hesitate to contact me at (602) 567-3894.

Very truly yours,

BROWN AND CALDWELL


Barbara A. Sylvester, E.I.T.
Engineer II

BAS:lld
Attachment

cc: Mr. Adrain Taylor, Vanguard Properties
Florence Copper File

**FLORENCE MINE PROJECT
QUARTERLY AND BIENNIAL COMPLIANCE MONITORING REPORT
THIRD QUARTER 2003**

Primary Sampling Activities

Quarterly and biennial compliance monitoring was conducted for the Florence Mine project on July 7 through July 9 and July 29, 2003 (Third Quarter 2003). Groundwater sampling and analysis was conducted in accordance with the requirements of Aquifer Protection Permit (APP) Permit Number 101704, Part II.E.2 d (Compliance Monitoring). Quarterly parameters, as listed in Part IV, Table III.B of the APP were analyzed from the designated Point of Compliance (POC) wells. The quarterly parameters are magnesium, sulfate, fluoride, and total dissolved solids (TDS). During this quarter, biennial parameters were also analyzed. The biennial parameters, as listed in Part IV, Table III.C, are shown in Table 1 of this report. Radium 226 and radium 228 were only analyzed if gross alpha exceeded 5.0 picocuries per liter (pCi/l). Total uranium was only analyzed if gross alpha exceeded 15.0 pCi/l.

During the Third Quarter 2003 sampling event, 29 POC wells were sampled and a total of 1,067 constituents were analyzed. Two POC wells, M32-UBF and M33-UBF, were dry and could not be sampled. Of the 1,067 constituents analyzed, none had reported concentrations exceeding the approved alert levels (ALs) or aquifer quality limits (AQLs).

Analyses of the samples were conducted by Precision Analytical Laboratories (PAL). Radiochemical analyses were provided by Radiation Safety Engineering. Analytical results for the POC wells for the indicator parameters are provided in Table 2 and field parameters measured during sampling are indicated in Table 3. Common ions are presented in Table 4, formation-related radiochemicals are presented in Table 5, process-related organics are presented in Table 6, and trace inorganics (metals) are presented in Table 7.

All of the results were similar to past results for Level II parameters. No trends or unusual changes were observed. Due to a miscommunication with the laboratory, the method detection limit used to analyze total diesel petroleum hydrocarbons (TPH-D) was above historical method detection limits. Because ALs and AQLs have been not established for TPH-D, no action limit was exceeded. However, TPH-D will be reanalyzed at the lower detection limit on samples collected during the next quarterly event in order to more accurately compare current conditions to concentrations reported during the last biennial event in 2001.

AL Exceedances and Verification Sampling

Part II.F.4 of the permit (Contingencies for AL and AQL Exceedances) requires verification sampling for an AL or AQL exceedance. There were no AL or AQL exceedances during this quarterly sampling. No verification sampling was required.

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During the Second Quarter of 2003, well M29-UBF had a reported TDS concentration of 3,200 milligrams per liter (mg/l), which exceeded the alert level of 2,751 mg/l. Because the final results were obtained from the laboratory after the quarter had ended, verification sampling was not performed during the quarter. The Third Quarter sampling served as the verification sampling event for the TDS exceedance. The Third Quarter result of 1,500 mg/l was below the AL and therefore the exceedance was not verified. No further contingency sampling will be required.

Contingency Sampling Plan to be Implemented During Fourth Quarter 2003

There were no AL or AQL exceedances verified during this quarterly sampling. No contingency sampling plan is required during the Fourth Quarter of 2003.

Results of Contingency Sampling Plan Implemented from Second Quarter 2003

There were no AL or AQL exceedances verified during the Second Quarter 2003. Therefore, no contingency sampling plan was implemented.

Issues

There were no other issues to report during the Second Quarter 2003.

TABLE 1. SUMMARY OF BIENNIAL GROUNDWATER MONITORING PARAMETERS

| ANALYSIS | METHOD | PRESERVATIVE |
|---|---------------|------------------|
| Quarterly Parameters | | |
| Fluoride | EPA 300.0 | None |
| Magnesium | EPA 200.7 | HNO ₃ |
| Sulfate | EPA 300.0 | None |
| Total dissolved solids | SM 2540C | None |
| Common Ions | | |
| pH | EPA 150.1 | None |
| Bicarbonate alkalinity | SM 2320B | None |
| Carbonate alkalinity | SM 2320B | None |
| Calcium | EPA 200.7 | HNO ₃ |
| Chloride | EPA 300.0 | None |
| Nitrate as N | EPA 300.0 | None |
| Potassium | EPA 200.7 | HNO ₃ |
| Sodium | EPA 200.7 | HNO ₃ |
| Cation/anion balance | Calculation | |
| Formation-Related Radiochemicals | | |
| Gross alpha | EPA 600/00-02 | None |
| Radium 226 (if gross alpha > 5.0) | EPA 903.1 | None |
| Radium 228 (if gross alpha > 5.0) | EPA 904 | None |
| Total Uranium (if G. Alpha > 15.0) | EPA 60-07 | None |
| Process-Related Organics | | |
| Extractable fuel hydrocarbons (diesel range organics) | 8015AZR1 | None |
| Benzene | EPA 8260B | HCl |
| Ethylbenzene | EPA 8260B | HCl |
| Toluene | EPA 8260B | HCl |
| Total xylene | EPA 8260B | HCl |
| Trace Inorganics (Metals) | | |
| Aluminum | EPA 200.7 | HNO ₃ |
| Antimony | EPA 200.8 | HNO ₃ |
| Arsenic | EPA 200.8 | HNO ₃ |
| Barium | EPA 200.8 | HNO ₃ |
| Beryllium | EPA 200.7 | HNO ₃ |
| Cadmium | EPA 200.7 | HNO ₃ |
| Chromium total | EPA 200.8 | HNO ₃ |
| Cobalt | EPA 200.8 | HNO ₃ |
| Copper | EPA 200.7 | HNO ₃ |
| Iron | EPA 200.7 | HNO ₃ |
| Lead | EPA 200.8 | HNO ₃ |
| Manganese | EPA 200.7 | HNO ₃ |
| Mercury | EPA 245.1 | HNO ₃ |
| Nickel | EPA 200.7 | HNO ₃ |
| Selenium | EPA 200.8 | HNO ₃ |
| Thallium | EPA 200.8 | HNO ₃ |
| Zinc | EPA 200.7 | HNO ₃ |

TABLE 2. SUMMARY OF ANALYTICAL RESULTS, QUARTERLY PARAMETERS

| Well ID | Sample Date | Magnesium | | Sulfate | | Fluoride | | Total Dissolved Solids | |
|--|-------------|---------------|-------------|---------------|-------------|---------------|-------------|------------------------|-------------|
| | | Concentration | Alert Level | Concentration | Alert Level | Concentration | Alert Level | Concentration | Alert Level |
| M1-GL | Jul 09 2003 | 22.0 | 31 | 97 | 109 | 0.8 | 1.3 | 650 | 1028 |
| M1-GL (Dup) | Jul 09 2003 | 22.6 | 31 | 99 | 109 | 0.82 | 1.3 | 640 | 1028 |
| M2-GU | Jul 29 2003 | 19.0 | 39 | 140 | 275 | 0.85 | 1.4 | 730 | 1496 |
| M3-GL | Jul 07 2003 | 20.0 | 36 | 130 | 187 | 0.75 | 1.3 | 690 | 1157 |
| M4-O | Jul 07 2003 | 4.5 | 15 | 57 | 405 | 2.5 | 5.1 | 420 | 1072 |
| M6-GU | Jul 08 2003 | 3.1 | 5.1 | 53 | 86 | 0.77 | 1.3 | 370 | 620 |
| M7-GL | Jul 08 2003 | <0.25 | 1 | 37 | 82 | 0.94 | 1.7 | 280 | 464 |
| M8-O | Jul 08 2003 | <0.25 | 1 | 76 | 122 | 2.0 | 3.6 | 350 | 609 |
| M14-GL | Jul 08 2003 | 2.1 | 23 | 59 | 144 | 0.72 | 1.4 | 410 | 874 |
| M15-GU | Jul 08 2003 | 25.0 | 44 | 73 | 126 | 0.59 | 1.2 | 740 | 1359 |
| M15-GU (Dup) | Jul 08 2003 | 24.0 | 44 | 73 | 126 | 0.6 | 1.2 | 740 | 1359 |
| M16-GU | Jul 29 2003 | 28.0 | 52 | 170 | 248 | 0.58 | 1.1 | 990 | 1635 |
| M17-GL | Jul 09 2003 | 5.7 | 9.3 | 120 | 209 | 0.87 | 1.6 | 480 | 831 |
| M18-GU | Jul 09 2003 | 18.0 | 36 | 160 | 288 | 1.0 | 1.6 | 670 | 1323 |
| M19-LBF | Jul 07 2003 | 12.0 | 21 | 56 | 89 | 0.53 | 1 | 470 | 794 |
| M19-LBF (Dup) | Jul 07 2003 | 12.0 | 21 | 56 | 89 | 0.53 | 1 | 450 | 794 |
| M20-O | Jul 07 2003 | 8.9 | 14 | 70 | 112 | 0.87 | 1.7 | 470 | 809 |
| M21-UBF | Jul 07 2003 | 33.0 | 87 | 240 | 487 | 0.73 | 1.1 | 1100 | 2867 |
| M22-O | Jul 08 2003 | 6.2 | 8.6 | 52 | 86 | 0.77 | 1.3 | 400 | 1094 |
| M23-UBF | Jul 08 2003 | 43.0 | 69 | 250 | 411 | 0.79 | 1.3 | 1500 | 2392 |
| M24-O | Jul 09 2003 | 12.0 | 19 | 760 | 1364 | 1.1 | 2.5 | 1300 | 2363 |
| M25-UBF | Jul 09 2003 | 37.0 | 76 | 230 | 387 | 0.72 | 1.6 | 1200 | 2083 |
| M26-O | Jul 07 2003 | <0.25 | 1 | 65 | 105 | 1.6 | 3.4 | 340 | 556 |
| M27-LBF | Jul 07 2003 | 32.0 | 51 | 130 | 179 | 0.44 | 1 | 1000 | 1745 |
| M28-LBF | Jul 07 2003 | 1.6 | 2.6 | 49 | 81 | 0.82 | 1.6 | 370 | 610 |
| M29-UBF | Jul 07 2003 | 47.0 | 84 | 280 | 465 | 0.66 | 1.1 | 1500 | 2751 |
| M30-O | Jul 09 2003 | 11.0 | 18 | 61 | 102 | 0.78 | 1.6 | 470 | 824 |
| M31-LBF | Jul 09 2003 | 29.0 | 46 | 220 | 330 | 0.75 | 1.3 | 950 | 1665 |
| O19-GL | Jul 08 2003 | 10.0 | 17 | 58 | 99 | 0.7 | 1.4 | 450 | 770 |
| O49-GL | Jul 07 2003 | 9.8 | 18 | 75 | 159 | 0.61 | 1 | 530 | 849 |
| P19-J-O | Jul 08 2003 | 6.5 | 12 | 67 | 107 | 1.6 | 2.8 | 440 | 767 |
| P49-O | Jul 07 2003 | 4.0 | 6.2 | 110 | 131 | 1.0 | 2 | 470 | 801 |
| Laboratory Detection Limit | | 0.25 | | 2 | | 0.4 | | 10 | |
| Arizona Aquifer Water Quality Standard | | - | | - | | 4 | | - | |

All results in milligrams per liter (mg/l)

< = less than the laboratory practical quantitation limit

TABLE 3. SUMMARY OF QUARTERLY FIELD PARAMETERS

| Well ID | Sample Date | Temperature (°C) | Temperature (°F) | pH | Conductivity (µmhos/cm) |
|---------|-------------|---------------------|---------------------|------|----------------------------|
| M1-GL | Jul 09 2003 | 22.3 | 72.1 | 7.48 | 1027 |
| M2-GU | Jul 28 2003 | 19.8 | 67.6 | 7.36 | 1030 |
| M3-GL | Jul 07 2003 | 22.1 | 71.8 | 7.49 | 1069 |
| M4-O | Jul 07 2003 | 24.0 | 75.2 | 7.41 | 638 |
| M6-GU | Jul 08 2003 | 23.4 | 72.7 | 8.52 | 692 |
| M7-GL | Jul 08 2003 | 24.6 | 76.3 | 9.39 | 499 |
| M8-O | Jul 08 2003 | 29.5 | 85.1 | 8.77 | 673 |
| M14-GL | Jul 08 2003 | 27.3 | 81.1 | 8.52 | 805 |
| M15-GU | Jul 08 2003 | 25.2 | 77.4 | 7.52 | 1269 |
| M16-GU | Jul 28 2003 | 24.2 | 75.6 | 7.42 | 1483 |
| M17-GL | Jul 09 2003 | 23.3 | 82.9 | 8.35 | 849 |
| M18-GU | Jul 09 2003 | 19.6 | 67.3 | 7.50 | 972 |
| M19-LBF | Jul 07 2003 | 23.5 | 74.3 | 7.71 | 769 |
| M20-O | Jul 07 2003 | 24.0 | 75.2 | 7.53 | 759 |
| M21-UBF | Jul 07 2003 | 22.7 | 72.9 | 7.28 | 1610 |
| M22-O | Jul 08 2003 | 28.1 | 82.6 | 8.09 | 767 |
| M23-UBF | Jul 08 2003 | 22.5 | 72.5 | 7.14 | 2177 |
| M24-O | Jul 09 2003 | 30.9 | 87.6 | 7.79 | 1996 |
| M25-UBF | Jul 09 2003 | 21.3 | 70.3 | 7.19 | 1734 |
| M26-O | Jul 07 2003 | 29.2 | 84.6 | 8.48 | 592 |
| M27-LBF | Jul 07 2003 | 23.7 | 74.7 | 7.51 | 1571 |
| M28-LBF | Jul 07 2003 | 26.4 | 79.5 | 8.33 | 672 |
| M29-UBF | Jul 07 2003 | 22.8 | 73.0 | 7.09 | 2159 |
| M30-O | Jul 09 2003 | 24.4 | 75.9 | 7.53 | 786 |
| M31-LBF | Jul 09 2003 | 22.6 | 72.7 | 7.27 | 1414 |
| O19-GL | Jul 08 2003 | 24.1 | 75.4 | 7.84 | 758 |
| O49-GL | Jul 07 2003 | 26.2 | 79.2 | 7.69 | 901 |
| P19-I-O | Jul 08 2003 | 24.8 | 76.6 | 7.64 | 733 |
| P49-O | Jul 07 2003 | 28.2 | 82.8 | 7.68 | 807 |
| | | | | | |

TABLE 4. SUMMARY OF COMMON INORGANIC ANALYTICAL RESULTS, BIENNIAL PARAMETERS

| Well ID | Sample Date | Bicarbonate Alkalinity | Carbonate Alkalinity | Calcium | Chloride | Nitrate as N | Potassium | Sodium | pH | Ion Balance |
|----------------------------|-------------|------------------------|----------------------|---------|----------|--------------|-----------|--------|------|-------------|
| M1-GL | Jul 09 2003 | 130 | <2 | 90 | 210 | 4.3 | 6.8 | 120 | 7.45 | 1.07 |
| M1-GL (Dup) | Jul 09 2003 | 130 | <2 | 90 | 200 | 4.3 | 6.7 | 120 | 7.5 | 1.09 |
| M2-GU | Jul 29 2003 | 170 | <2 | 80 | 160 | 4.8 | 5.4 | 150 | 7.38 | 1.09 |
| M3-GL | Jul 07 2003 | 140 | <2 | 84 | 200 | 4 | 6.6 | 140 | 7.44 | 1.13 |
| M4-O | Jul 07 2003 | 84 | <2 | 20 | 120 | 0.7 | 4.8 | 140 | 7.53 | 0.96 |
| M6-GU | Jul 08 2003 | 48 | <2 | 17 | 130 | 0.76 | 4.6 | 140 | 7.68 | 1.24 |
| M7-GL | Jul 08 2003 | 74 | 16 | 3 | 78 | <0.2 | 2 | 110 | 9.04 | 0.98 |
| M8-O | Jul 08 2003 | 150 | <2 | 24 | 47 | 1.1 | <2 | 170 | 8.47 | 1.27 |
| M14-GL | Jul 08 2003 | 58 | <2 | 17 | 140 | 1.1 | 4 | 160 | 8.11 | 1.23 |
| M15-GU | Jul 08 2003 | 96 | <2 | 91 | 260 | 4.4 | 7.8 | 160 | 7.56 | 1.22 |
| M15-GU (Dup) | Jul 08 2003 | 120 | <2 | 88 | 260 | 4.3 | 7.6 | 150 | 7.65 | 1.12 |
| M16-GU | Jul 29 2003 | 120 | <2 | 110 | 330 | 3.7 | 8.6 | 170 | 7.47 | 0.98 |
| M17-GL | Jul 09 2003 | 84 | <2 | 28 | 110 | 0.63 | 6.8 | 140 | 7.92 | 1.05 |
| M18-GU | Jul 09 2003 | 190 | <2 | 82 | 140 | 4.1 | 5.7 | 150 | 7.45 | 1.07 |
| M19-LBF | Jul 07 2003 | 120 | <2 | 52 | 150 | 0.98 | 5.1 | 100 | 7.69 | 0.99 |
| M19-LBF (Du | Jul 07 2003 | 120 | <2 | 54 | 140 | 0.98 | 5.4 | 100 | 7.68 | 1.03 |
| M20-O | Jul 07 2003 | 100 | <2 | 42 | 130 | 0.54 | 7.4 | 110 | 7.6 | 1.39 |
| M21-UBF | Jul 07 2003 | 220 | <2 | 140 | 230 | 10 | 7.6 | 210 | 7.31 | 1.17 |
| M22-O | Jul 08 2003 | 82 | <2 | 33 | 120 | 0.78 | 5.3 | 120 | 7.82 | 1.13 |
| M23-UBF | Jul 08 2003 | 190 | <2 | 200 | 460 | 13 | 11 | 290 | 7.28 | 1.17 |
| M24-O | Jul 09 2003 | 74 | <2 | 140 | 63 | 0.77 | 8.7 | 330 | 7.56 | 1.15 |
| M25-UBF | Jul 09 2003 | 210 | <2 | 170 | 340 | 10 | 9.5 | 240 | 7.16 | 1.17 |
| M26-O | Jul 07 2003 | 140 | <2 | 29 | 43 | 1.3 | <2 | 140 | 8.09 | 1.14 |
| M27-LBF | Jul 07 2003 | 96 | <2 | 140 | 350 | 9.6 | 8.8 | 170 | 7.33 | 1.14 |
| M28-LBF | Jul 07 2003 | 80 | <2 | 210 | 130 | 0.7 | 11 | 300 | 7.92 | 3.91 |
| M29-UBF | Jul 07 2003 | 220 | <2 | 210 | 430 | 16 | 11 | 290 | 7.32 | 1.19 |
| M30-O | Jul 09 2003 | 110 | <2 | 51 | 130 | 0.74 | 6.7 | 99 | 7.56 | 0.98 |
| M31-LBF | Jul 09 2003 | 220 | <2 | 130 | 180 | 7.3 | 8.3 | 200 | 7.34 | 1.23 |
| O19-GL | Jul 08 2003 | 110 | <2 | 47 | 130 | 0.73 | 5.6 | 100 | 7.61 | 1.01 |
| O49-GL | Jul 07 2003 | 130 | <2 | 51 | 150 | 1.8 | 6.3 | 140 | 7.43 | 1.06 |
| P19-I-O | Jul 08 2003 | 110 | <2 | 32 | 110 | 0.65 | 5.5 | 140 | 7.88 | 1.08 |
| P49-O | Jul 07 2003 | 96 | <2 | 34 | 98 | 0.63 | 5.4 | 160 | 7.49 | 1.18 |
| Laboratory Detection Limit | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| AWQS | | - | - | - | - | 10 | - | - | - | - |

All results in milligrams per liter (mg/L), except pH in pH units, and Ion Balance, a calculation.

 $\epsilon =$ less than detection limit

AWQS = Arizona Aquifer Water Quality Standard

**TABLE 5. SUMMARY OF RADIOCHEMICAL ANALYTICAL
RESULTS, BIENNIAL PARAMETERS**

| Well ID | Sample Date | Gross Alpha | Radium 226 | Radium 228 | Total Radium |
|--|-------------|-------------|------------|------------|--------------|
| M1-GL | Jul 09 2003 | 4.0 ± 0.9 | - | - | - |
| M1-GL (Dup) | Jul 09 2003 | 5.3 ± 1.0 | <0.4 | <0.4 | <0.4 |
| M2-GU | Jul 29 2003 | 4.0 ± 0.9 | - | - | - |
| M3-GL | Jul 07 2003 | 4.4 ± 0.9 | - | - | - |
| M4-O | Jul 07 2003 | 2.8 ± 0.7 | - | - | - |
| M6-GU | Jul 08 2003 | 1.3 ± 0.5 | - | - | - |
| M7-GL | Jul 08 2003 | 1.7 ± 0.6 | - | - | - |
| M8-O | Jul 08 2003 | 12.0 ± 1.6 | <0.2 | <0.3 | <0.3 |
| M14-GL | Jul 08 2003 | 1.5 ± 0.6 | - | - | - |
| M15-GU | Jul 08 2003 | 4.5 ± 1.0 | - | - | - |
| M15-GU (Dup) | Jul 08 2003 | 5.8 ± 1.1 | <0.2 | <0.3 | <0.3 |
| M16-GU | Jul 29 2003 | 7.6 ± 1.3 | <0.3 | <0.4 | <0.4 |
| M17-GL | Jul 09 2003 | 2.1 ± 0.7 | - | - | - |
| M18-GU | Jul 09 2003 | 4.5 ± 1.0 | - | - | - |
| M19-LBF | Jul 07 2003 | 4.4 ± 0.9 | - | - | - |
| M19-LBF (Dup) | Jul 07 2003 | 5.1 ± 1.0 | <0.4 | <0.3 | <0.4 |
| M20-O | Jul 07 2003 | 2.2 ± 0.7 | - | - | - |
| M21-UBF | Jul 07 2003 | 6.6 ± 1.2 | <0.2 | <0.3 | <0.3 |
| M22-O | Jul 08 2003 | 3.1 ± 0.8 | - | - | - |
| M23-UBF | Jul 08 2003 | 9.0 ± 1.4 | <0.3 | <0.4 | <0.4 |
| M24-O | Jul 09 2003 | 7.4 ± 1.3 | 0.9 ± 0.1 | 0.6 ± 0.4 | 1.5 ± 0.4 |
| M25-UBF | Jul 09 2003 | 7.6 ± 1.3 | <0.3 | <0.3 | <0.3 |
| M26-O | Jul 07 2003 | 8.9 ± 1.4 | 0.3 ± 0.1 | <0.3 | 0.3 ± 0.1 |
| M27-LBF | Jul 07 2003 | 6.3 ± 1.2 | <0.3 | <0.3 | <0.3 |
| M28-LBF | Jul 07 2003 | 2.6 ± 0.7 | - | - | - |
| M29-UBF | Jul 07 2003 | 9.9 ± 1.5 | <0.4 | <0.4 | <0.4 |
| M30-O | Jul 09 2003 | 8.5 ± 1.4 | <0.5 | <0.8 | <0.8 |
| M31-LBF | Jul 09 2003 | 7.3 ± 1.3 | <0.3 | <0.3 | <0.3 |
| O19-GL | Jul 08 2003 | 5.6 ± 1.1 | <0.2 | <0.3 | <0.3 |
| O49-GL | Jul 07 2003 | 4.5 ± 1.0 | - | - | - |
| P19-I-O | Jul 08 2003 | 4.0 ± 0.9 | - | - | - |
| P49-O | Jul 07 2003 | 3.5 ± 0.8 | - | - | - |
| Alert Level | | 15 | - | - | 4 |
| Laboratory Detection Limit | | 0.04 | 0.02 | 0.04 | 0.06 |
| Arizona Aquifer Water Quality Standard | | - | - | - | 5 |

All results in pico-curies per liter +/- a standard deviation of two (pCi/L +/- 2 σ)
 < = less than detection limit
 Radium 226 and Radium 228 are analyzed when Gross Alpha exceeds 5.0
 Total Radium = Radium 226 + Radium 228

**TABLE 6. SUMMARY OF ORGANIC ANALYTICAL
RESULTS, BIENNIAL PARAMETERS**

| Well ID | Sample Date | Benzene | Ethylbenzene | Toluene | Total Xylene | Total Petroleum Hydrocarbons-Diesel |
|--|-------------|---------|--------------|---------|--------------|--|
| M1-GL | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M1-GL (Dup) | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M2-GU | Jul 29 2003 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <3 |
| M3-GL | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M4-O | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M6-GU | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M7-GL | Jul 08 2003 | <0.001 | <0.001 | 0.017 | <0.003 | <3 |
| M8-O | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M14-GL | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M15-GU | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M15-GU (Dup) | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M16-GU | Jul 29 2003 | <0.0005 | <0.0005 | 0.0097 | <0.001 | <3 |
| M17-GL | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M18-GU | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M19-LBF | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M19-LBF (Dup) | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M20-O | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M21-UBF | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M22-O | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M23-UBF | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M24-O | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M25-UBF | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M26-O | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M27-LBF | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M28-LBF | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M29-UBF | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M30-O | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| M31-LBF | Jul 09 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| Q19-GL | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| Q49-GL | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| P19-J-O | Jul 08 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| P49-O | Jul 07 2003 | <0.001 | <0.001 | <0.001 | <0.003 | <3 |
| Alert Level | | 0.0025 | 0.35 | 0.5 | 5 | R |
| Laboratory Detection Limit | | 0.002 | 0.002 | 0.002 | 0.002 | 0.5 |
| AWQS | | 0.005 | 0.7 | 1 | 10 | - |
| All results are in milligrams per liter (mg/L) < = less than detection limit AWQS = Arizona Aquifer Water Quality Standard R = Reserved | | | | | | |

| Well ID | Sample Date | Aluminum | Antimony | Nickel | Selenium | Thallium | Zinc |
|--|-------------|----------|----------|--------|----------|----------|-------|
| M1-GL | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M1-GL (Dup) | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M2-GU | Jul 29 2003 | <0.1 | <0.001 | <0.01 | 0.0011 | <0.001 | <0.05 |
| M3-GL | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M4-O | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M6-GU | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M7-GL | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M8-O | Jul 08 2003 | <0.1 | <0.001 | <0.01 | 0.003 | <0.001 | <0.05 |
| M14-GL | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M15-GU | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M15-GU (Dup) | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M16-GU | Jul 29 2003 | <0.1 | <0.001 | <0.01 | 0.0023 | <0.001 | <0.05 |
| M17-GL | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M18-GU | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M19-LBF | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M19-LBF (Dup) | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M20-O | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M21-UBF | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M22-O | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M23-UBF | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M24-O | Jul 09 2003 | <0.1 | <0.001 | <0.01 | 0.0077 | <0.001 | <0.05 |
| M25-UBF | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M26-O | Jul 07 2003 | <0.1 | <0.001 | <0.01 | 0.0022 | <0.001 | <0.05 |
| M27-LBF | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M28-LBF | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M29-UBF | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M30-O | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| M31-LBF | Jul 09 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| O19-GL | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| O49-GL | Jul 07 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| P19-I-O | Jul 08 2003 | <0.1 | <0.001 | <0.01 | <0.001 | <0.001 | <0.05 |
| P49-O | Jul 07 2003 | <0.1 | <0.001 | <0.01 | 0.0011 | <0.001 | <0.05 |
| Lowest Action Level | | 0.71 | 0.005 | 0.08 | 0.027 | 0.002 | 2.5 |
| Laboratory Detection Limit | | 0.1 | 0.001 | 0.01 | 0.001 | 0.001 | 0.05 |
| Arizona Aquifer Water Quality Standard | | - | 0.006 | 0.1 | 0.05 | 0.002 | - |

All results in milligrams per liter (mg/L)

< = less than detection limit

AQL = Aquifer quality limit

Lowest Action Level = Lowest alert level or AQL; a higher val

R = Reserved