FLORENCE COPPER INC.
FLORENCE COPPER PROJECT
THIRD QUARTER 2007 MONITORING REPORT
U.I.C. PERMIT AZ396000001
AND
A.P.P. PERMIT 101704

October 26, 2007

MERRILL MINING, LLC
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HUGH NOWELL
CORPORATE COUNSEL

October 26, 2007

Ms. Nancy Rumrill
U.S. Environmental Protection Agency
Region 9, Ground Water Office, WTR-9
75 Hawthorne Street
San Francisco, California 94105-3901

RE: MONITORING REPORT FOR UIC PERMIT NUMBER AZ396000001
THIRD QUARTER 2007 REPORT

Dear Ms. Rumrill,

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, 2007. Copies of records required by Part II.G.1 are maintained at the Mine Site along with other information that is summarized below.

Florence Copper is subject to the requirements of UIC Permit No. AZ396000001 issued by the United States Environmental Protection Agency (USEPA) on May 1, 1997, and APP No. 101704 issued by the Arizona Department of Environmental Quality (ADEQ) on June 9, 1997, and last amended on July 16, 2004.

As you are aware, Florence Copper discontinued hydraulic control on September 1, 2004 in order to conduct groundwater quality tests in accordance with Part II.H.2 of the APP and Part II.I.2 of the UIC Permit. A report of the results has been provided to the ADEQ and USEPA for review. The pumping wells remain off during the evaluation process. As a result, no extraction flows are reported under Section (b) below and the water level measurements that are reported in Section (b) reflect natural conditions, not hydraulic control.

(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

Hydraulic control was discontinued on September 1, 2004 for purposes of collecting groundwater samples following a 90-day period of no hydraulic control, and remains discontinued for evaluation of results. Accordingly there are no injection or extraction flows to report.

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

Although hydraulic control was not maintained during this reporting period, water level measurements were continued by manual measurements in the four observation wells and their nearest inward neighbors. Figure 1 of Attachment 1 and the supporting data show the groundwater elevations in the four well pairs.

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

The attached report *Florence Project Quarterly Compliance Monitoring Report – Third Quarter 2007* by Brown and Caldwell and sealed by Ms. Barbara Sylvester, Professional Engineer (Attachment 2), contains the POC monitoring records and results. Brown and Caldwell, along with Project personnel, conducted compliance sampling on July 11 through 13, 2007.

Quarterly and biennial parameters were conducted for 29 of the 31 POC monitoring wells. POC monitoring 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. Due to a miscommunication, samples were not collected for benzene, ethylbenzene, toluene, and xylene (BTEX) during this event. These parameters will be collected and analyzed during the next quarterly event.

(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 2. 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.

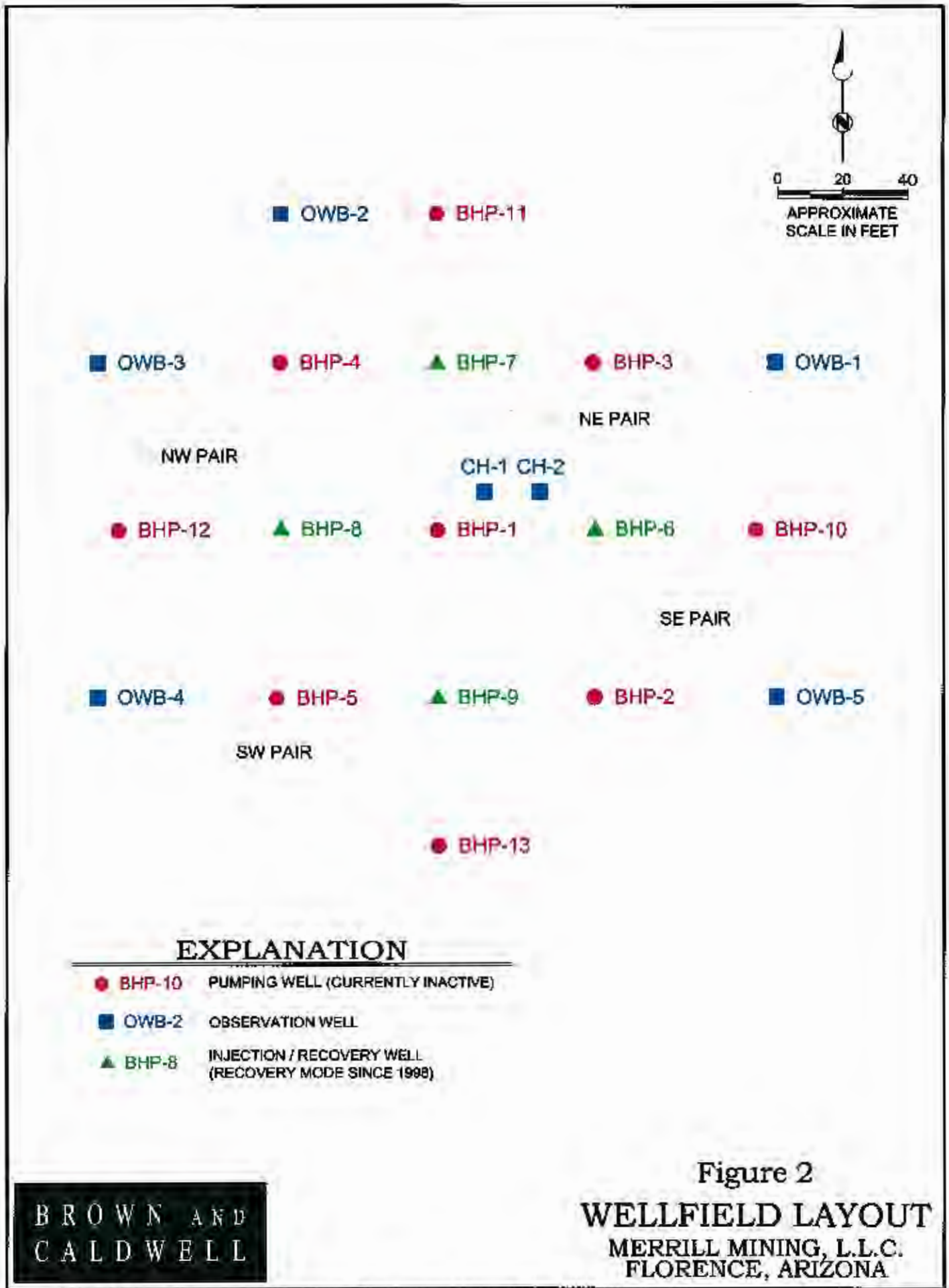
Florence Copper, Inc., believes that you will find this report complete and in compliance with all permit conditions. Please contact me at (404) 495-9577 should you have any questions regarding this report.

Sincerely,

Hugh Nowell
Corporate Counsel

BAS:tc
Attachments

cc: Florence Copper File



BROWN AND CALDWELL

Figure 2

WELLFIELD LAYOUT

MERRILL MINING, L.L.C.
FLORENCE, ARIZONA

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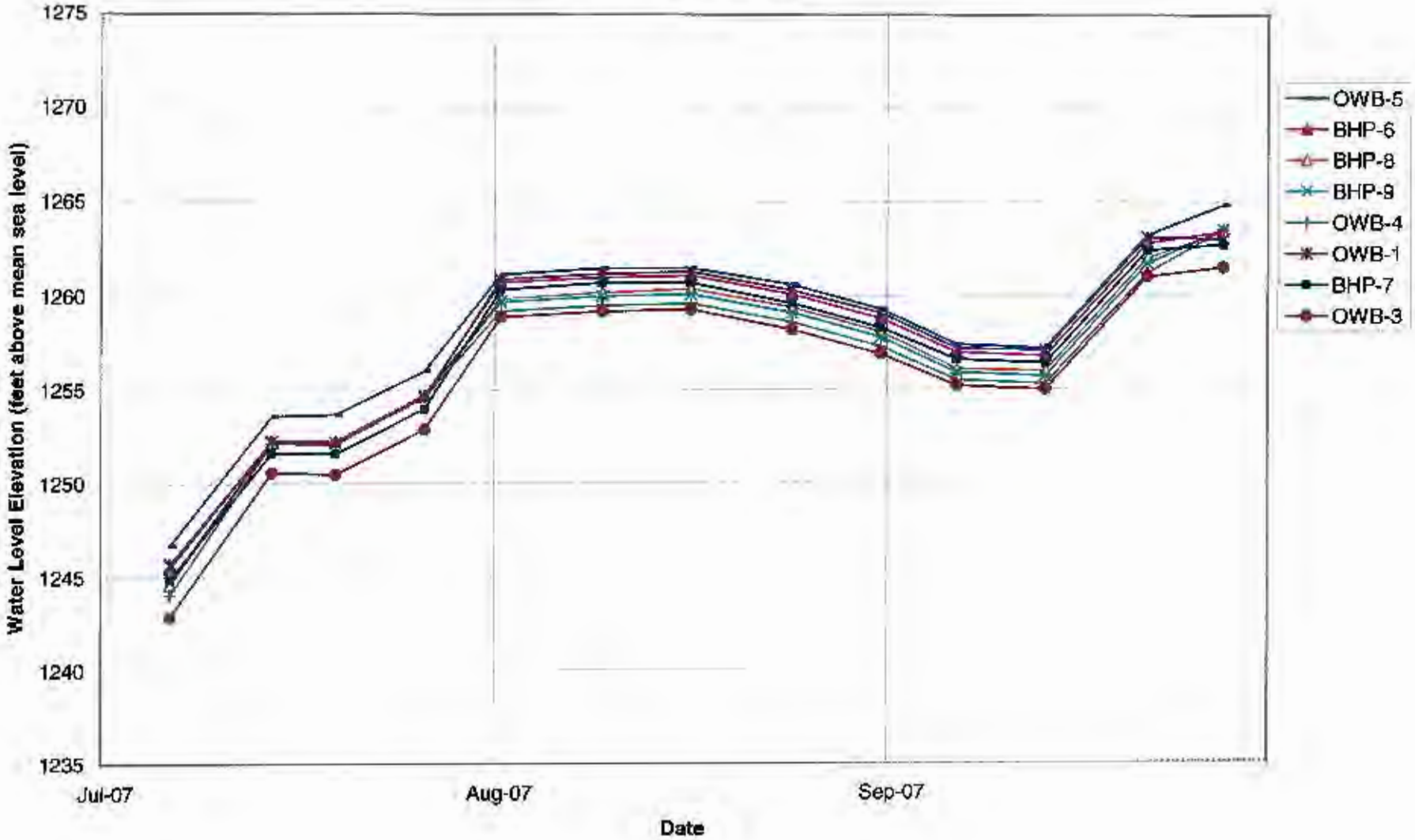
ATTACHMENT 1

MINE OPERATIONS MONITORING

Figure 1 - Well Field Water Elevations
Third Quarter 2007



Well Field Water Elevations
Third Quarter 2007

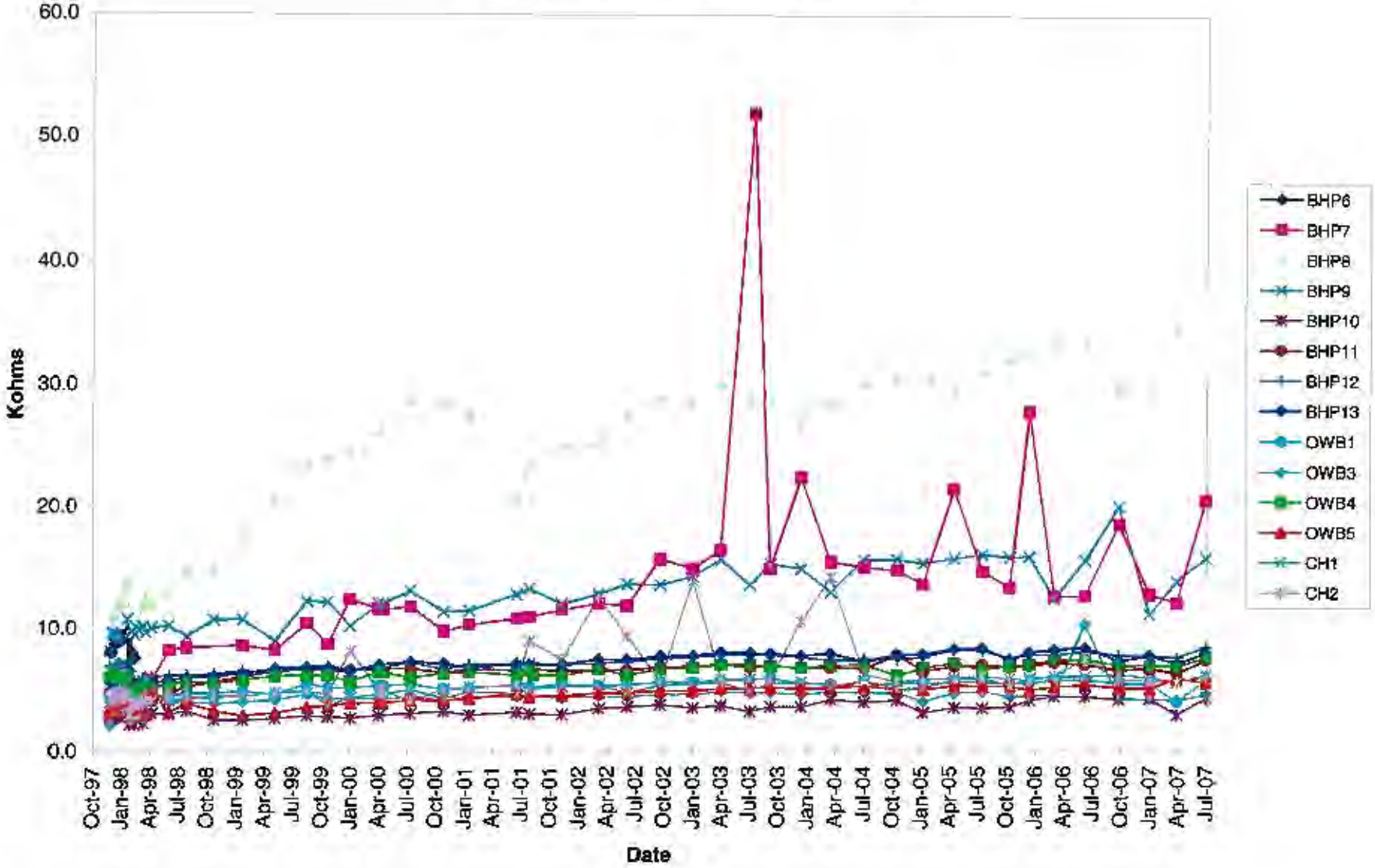
Date	BHP-6	BHP-7	BHP-8	BHP-9	OWB-1	OWB-3	OWB-4	OWB-5
7/6/07	1245.5	1244.9	1244.7	1244.8	1245.7	1242.9	1244.1	1246.7
7/14/07	1252.3	1251.7	1252.2	1252.3	1252.3	1250.6	1252.2	1253.6
7/19/07	1252.3	1251.6	1252.3	1252.2	1252.2	1250.5	1252.1	1253.7
7/26/07	1254.7	1254.0	1254.7	1254.7	1254.6	1252.9	1254.6	1256.0
8/1/07	1260.8	1260.4	1259.9	1259.7	1260.9	1258.9	1259.2	1261.2
8/9/07	1261.0	1260.7	1260.2	1260.0	1261.2	1259.2	1259.5	1261.5
8/16/07	1261.1	1260.7	1260.4	1260.1	1261.3	1259.3	1259.6	1261.5
8/24/07	1260.1	1259.6	1259.4	1259.1	1260.3	1258.2	1258.6	1260.6
8/31/07	1258.8	1258.3	1258.1	1257.8	1259.1	1256.9	1257.3	1259.3
9/6/07	1257.0	1256.6	1256.4	1255.9	1257.2	1255.2	1255.5	1257.4
9/13/07	1256.8	1256.4	1256.0	1255.7	1257.1	1255.0	1255.3	1257.2
9/21/07	1262.8	1262.4	1262.0	1261.7	1263.1	1261.0	1261.3	1263.2
9/27/07	1263.4	1262.7	1263.4	1263.5	1263.0	1261.5	1263.5	1264.8
Water Level Elevations (feet AMSL)								

BROWN AND CALDWELL

10/19/07

P:\Merrill Mining LLC\Florence Copper\Working\Quarterlies\Operation Monitoring\2007\3Q07\Hydraulic Control 3Q07.xls Water Elevs

Figure 2 - Annular Resistivity in Kohms



ATTACHMENT 2

POC QUARTERLY COMPLIANCE MONITORING REPORT

FLORENCE COPPER PROJECT
QUARTERLY COMPLIANCE MONITORING REPORT
THIRD QUARTER 2007

Primary Sampling Activities

Quarterly and biennial compliance monitoring compliance monitoring was conducted for the Florence Copper project on July 11 through 13, 2007 (Third Quarter 2007). Groundwater sampling and analysis was conducted in accordance with the requirements of Aquifer Protection Permit (APP) Permit Number 101704, Part II.E.3.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. Due to a miscommunication with the laboratory, samples were not collected for benzene, ethylbenzene, toluene, and xylene (BTEX) analysis during this event. These parameters will be collected and analyzed during the next quarterly event.

During the Third Quarter 2007 sampling event, 29 POC wells were sampled and a total of 964 constituents were analyzed. Two POC wells, M32-UBF and M33-UBF, were dry and could not be sampled. Of the 964 constituents analyzed, none had reported concentrations exceeding the approved alert levels (ALs).

Analyses of the samples were conducted by Aerotech Environmental Laboratories (Aerotech). 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.

AL Exceedances and Verification Sampling

Part II.F.4 of the APP (AL, Aquifer Quality Limit [AQL], and Discharge Limit [DL] Contingencies) requires verification sampling for an AL exceedance. There were no AL exceedances during this quarterly sampling. No verification sampling was required.

Contingency Sampling Plan to be Implemented During Fourth Quarter 2007

There were no AL exceedances verified during this quarterly sampling. No contingency sampling plan is required during the Fourth Quarter of 2007.

Results of Contingency Sampling Plan Implemented from Second Quarter 2007

There were no AL exceedances during the Second Quarter 2007. Therefore, no contingency sampling plan was implemented.

Issues

There were no other issues to report during the Third Quarter 2007.

TABLE I. SUMMARY OF BIENNIAL GROUNDWATER MONITORING PARAMETERS

ANALYSIS	METHOD	PRESERVATIVE
Quarterly Parameters		
Fluoride	EPA 300.0	None
Magnesium	EPA 200.7	HNO3
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	HNO3
Chloride	EPA 300.0	None
Nitrate as N	EPA 300.0	None
Potassium	EPA 200.7	HNO3
Sodium	EPA 200.7	HNO3
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 00-07	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	HNO3
Antimony	EPA 200.8	HNO3
Arsenic	EPA 200.8	HNO3
Barium	EPA 200.8	HNO3
Beryllium	EPA 200.7	HNO3
Cadmium	EPA 200.7	HNO3
Chromium total	EPA 200.8	HNO3
Cobalt	EPA 200.8	HNO3
Copper	EPA 200.7	HNO3
Iron	EPA 200.7	HNO3
Lead	EPA 200.8	HNO3
Manganese	EPA 200.7	HNO3
Mercury	EPA 245.1	HNO3
Nickel	EPA 200.7	HNO3
Selenium	EPA 200.8	HNO3
Thallium	EPA 200.8	HNO3
Zinc	EPA 200.7	HNO3

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 13 2007	22.0	31	93	109	0.85	1.3	650	1028
M2-GU	Jul 13 2007	29.0	39	170	275	0.91	1.4	920	1496
M3-GL	Jul 13 2007	21.0	36	120	187	0.82	1.3	660	1157
M4-O	Jul 13 2007	4.7	15	60	405	2.6	5.1	430	1072
M6-GU	Jul 12 2007	2.9	5.1	53	86	0.81	1.3	360	620
M7-GL	Jul 12 2007	<0.25	1	36	82	0.99	1.7	270	464
M8-O	Jul 12 2007	<0.25	1	77	122	2.2	3.6	350	609
M8-O (Dup)	Jul 12 2007	<0.25	1	78	122	2.2	3.6	360	609
M14-GL	Jul 12 2007	2.4	33	61	144	0.73	1.4	420	874
M15-GU	Jul 12 2007	25.0	44	80	126	0.64	1.2	760	1359
M16-GU	Jul 13 2007	32.0	52	160	248	0.69	1.1	960	1635
M17-GL	Jul 13 2007	5.8	9.3	100	209	0.88	1.6	450	831
M17-GL (Dup)	Jul 13 2007	5.8	9.3	100	209	0.87	1.6	450	831
M18-GU	Jul 13 2007	24.0	36	170	288	1.0	1.6	880	1323
M19-LBF	Jul 11 2007	12.0	21	56	89	0.59	1	460	794
M20-O	Jul 11 2007	8.8	14	71	112	0.94	1.7	480	809
M21-UBF	Jul 11 2007	22.0	87	160	487	0.94	1.1	770	2867
M22-O	Jul 12 2007	6.0	8.6	55	86	0.84	1.3	400	1094
M23-UBF	Jul 12 2007	41.0	69	240	411	0.84	1.3	1400	2392
M24-O	Jul 13 2007	11.0	19	710	1364	1.2	2.5	1300	2363
M25-UBF	Jul 13 2007	39.0	76	230	387	0.79	1.6	1200	2683
M26-O	Jul 11 2007	<0.25	1	65	105	1.7	3.4	320	556
M27-LBF	Jul 11 2007	34.0	51	130	179	0.48	1	1000	1745
M28-LBF	Jul 11 2007	1.7	2.6	50	81	0.87	1.6	370	610
M28-LBF (Dup)	Jul 11 2007	1.7	2.6	50	81	0.88	1.6	360	610
M29-UBF	Jul 11 2007	41.0	84	270	465	0.78	1.1	1300	2751
M30-O	Jul 11 2007	11.0	18	62	102	0.89	1.6	490	824
M31-LBF	Jul 11 2007	16.0	46	130	330	1.1	1.3	620	1665
019-GL	Jul 12 2007	11.0	17	60	99	0.72	1.4	440	770
049-GL	Jul 11 2007	10.0	18	79	159	0.7	1	540	849
P19-1-O	Jul 12 2007	6.5	12	68	107	1.6	2.8	440	767
P49-O	Jul 11 2007	3.7	6.2	110	181	1.1	2	460	801
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 13 2007	22.3	72.1	7.47	1069
M2-GU	Jul 13 2007	20.1	68.2	7.30	1344
M3-GL	Jul 13 2007	22.1	71.8	7.47	1051
M4-O	Jul 13 2007	23.9	75.0	7.38	650
M6-GU	Jul 12 2007	25.4	77.7	8.69	683
M7-GL	Jul 12 2007	24.6	76.3	9.55	493
M8-O	Jul 12 2007	29.6	85.3	8.96	669
M14-GL	Jul 12 2007	27.7	81.9	8.64	309
M15-GU	Jul 12 2007	25.5	77.9	7.56	1276
M16-GU	Jul 13 2007	24.6	76.3	7.48	1564
M17-GL	Jul 13 2007	28.9	84.0	8.29	843
M18-GU	Jul 13 2007	20.5	68.9	7.33	1304
M19-LBF	Jul 11 2007	23.8	74.8	7.68	788
M20-O	Jul 11 2007	24.3	75.7	7.58	759
M21-UBF	Jul 11 2007	23.0	73.4	7.38	1180
M22-O	Jul 12 2007	29.0	84.2	8.11	784
M23-UBF	Jul 12 2007	22.8	73.0	7.25	2042
M24-O	Jul 13 2007	30.6	87.1	7.75	1946
M25-UBF	Jul 13 2007	21.5	70.7	7.14	1886
M26-O	Jul 11 2007	29.5	85.1	8.57	600
M27-LBF	Jul 11 2007	23.8	74.8	7.55	1605
M28-LBF	Jul 11 2007	26.5	79.7	8.42	678
M29-UBF	Jul 11 2007	22.9	73.2	7.20	1892
M30-O	Jul 11 2007	24.8	76.6	7.56	791
M31-LBF	Jul 11 2007	23.0	73.4	7.49	953
O19-GL	Jul 12 2007	24.1	75.4	7.88	762
O49-GL	Jul 11 2007	26.3	79.3	7.70	937
P19-I-O	Jul 12 2007	25.0	77.0	7.64	735
P49-O	Jul 11 2007	28.9	84.0	7.68	810

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 13 2007	130	<2.	95.	200	4.5	5.3	130	8.05	11.4
M2-GU	Jul 13 2007	190	<2.	120.	210	9.	5.	180	7.96	12.2
M3-GL	Jul 13 2007	140	<2.	90.	160	3.6	5.3	130	8.03	12.2
M4-O	Jul 13 2007	82	<2.	22.	100	0.67	4.	130	7.9	13.1
M6-GU	Jul 12 2007	45	<2.	17.	150	0.69	4.	130	8.15	5.54
M7-GL	Jul 12 2007	65	23.	2.9	74	<0.2	<2.	120	9.1	6.38
M8-O	Jul 12 2007	140	14.	2.2	44	1.	<2.	160	8.68	10.4
M8-O (Dup)	Jul 12 2007	130	12.	2.2	44	1.	<2.	160	8.63	12.3
M14-GL	Jul 12 2007	61	<2.	19.	160	1.	3.6	160	8.3	9.04
M15-GU	Jul 12 2007	120	<2.	94.	280	4.5	6.1	150	7.96	7.15
M16-GU	Jul 13 2007	130	<2.	130.	300	9.6	6.7	190	7.92	10.9
M17-GL	Jul 13 2007	85	<2.	30.	290	0.57	5.4	140	8.26	0
M17-GL (Dup	Jul 13 2007	86	<2.	30.	100	0.57	5.4	140	8.21	12.6
M18-GU	Jul 13 2007	180	<2.	110.	200	9.5	5.1	180	7.98	23.7
M19-LBF	Jul 11 2007	120	<2.	57.	130	0.87	5.	100	8.04	9.67
M20-O	Jul 11 2007	100	<2.	44.	130	0.41	6.1	110	7.97	7.17
M21-UBF	Jul 11 2007	210	<2.	94.	70	4.9	5.4	170	8.	23.5
M22-O	Jul 12 2007	86	<2.	34.	140	0.84	4.4	120	8.1	6.83
M23-UBF	Jul 12 2007	170	<2.	200.	440	12.	7.5	260	7.84	9.77
M24-O	Jul 13 2007	72	<2.	140.	53	0.74	5.8	320	7.99	10.8
M25-UBF	Jul 13 2007	200	<2.	180.	340	15.	6.9	240	7.89	11.9
M26-O	Jul 11 2007	130	3.8	2.7	37	1.3	<2.	140	8.38	13.3
M27-LBF	Jul 11 2007	92	<2.	140.	350	10.	6.9	170	7.93	9.74
M28-LBF	Jul 11 2007	79	<2.	14.	110	0.57	4.	140	8.26	12.3
M28-LBF (Du	Jul 11 2007	79	<2.	14.	110	0.57	3.9	140	8.22	12.3
M29-UBF	Jul 11 2007	220	<2.	180.	300	14.	7.6	250	7.88	6.34
M30-O	Jul 11 2007	110	<2.	51.	130	0.72	5.7	110	7.97	10.4
M31-LBF	Jul 11 2007	190	<2.	70.	110	3.2	4.8	150	8.02	11.8
O19-GL	Jul 12 2007	110	<2.	53.	140	0.67	5.	110	8.05	9.11
O49-GL	Jul 11 2007	120	<2.	54.	150	2.3	5.2	140	8.04	10.3
P19-1-O	Jul 12 2007	110	<2.	34.	100	0.54	4.6	130	7.99	13.2
P49-O	Jul 11 2007	94	<2.	31.	90	0.55	4.1	140	7.95	11.1
AWQS		-	-	-	-	10	-	-	-	-

All results in milligrams per liter (mg/L), except pH in pH units, and Ion Balance, a calculation
< = 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 13 2007	5.1 ± 1.1	<0.4	<0.3	<0.4
M2-GU	Jul 13 2007	6.9 ± 1.3	<0.4	<0.3	<0.4
M3-GL	Jul 13 2007	5.8 ± 1.1	<0.4	<0.3	<0.4
M4-O	Jul 13 2007	2.5 ± 0.8	-	-	-
M6-GU	Jul 12 2007	1.0 ± 0.5	-	-	-
M7-GL	Jul 12 2007	0.6 ± 0.4	-	-	-
M8-O	Jul 12 2007	12.2 ± 1.7	<0.5	<0.3	<0.5
M8-O (Dup)	Jul 12 2007	12.6 ± 1.8	<0.5	<0.3	<0.5
M14-GL	Jul 12 2007	1.5 ± 0.6	-	-	-
M15-GU	Jul 12 2007	4.6 ± 1.0	-	-	-
M16-GU	Jul 13 2007	7.0 ± 1.7	<0.4	<0.4	<0.4
M17-GL	Jul 13 2007	2.9 ± 0.9	-	-	-
M17-GL (Dup)	Jul 13 2007	1.8 ± 0.6	-	-	-
M18-GU	Jul 13 2007	6.7 ± 1.3	<0.4	<0.4	<0.4
M19-LBF	Jul 11 2007	4.4 ± 1.0	-	-	-
M20-O	Jul 11 2007	2.6 ± 0.8	-	-	-
M21-UBF	Jul 11 2007	4.9 ± 1.0	-	-	-
M22-O	Jul 12 2007	2.5 ± 0.7	-	-	-
M23-UBF	Jul 12 2007	5.9 ± 1.2	1.2 ± 0.1	<0.3	1.2 ± 0.1
M24-O	Jul 13 2007	4.9 ± 1.0	-	-	-
M25-UBF	Jul 13 2007	6.2 ± 1.2	<0.3	<0.3	<0.3
M26-O	Jul 11 2007	7.0 ± 1.3	<0.4	<0.3	<0.4
M27-LBF	Jul 11 2007	4.8 ± 1.0	-	-	-
M28-LBF	Jul 11 2007	2.4 ± 0.7	-	-	-
M28-LBF (Dup)	Jul 11 2007	2.8 ± 0.8	-	-	-
M29-UBF	Jul 11 2007	7.7 ± 1.3	<0.4	<0.3	<0.4
M30-O	Jul 11 2007	5.6 ± 1.1	<0.4	<0.3	<0.4
M31-LBF	Jul 11 2007	4.2 ± 1.0	-	-	-
O19-GL	Jul 12 2007	4.6 ± 1.1	-	-	-
O49-GL	Jul 11 2007	5.0 ± 1.0	<0.3	<0.3	<0.3
P19-LO	Jul 12 2007	4.1 ± 1.0	-	-	-
P49-O	Jul 11 2007	2.6 ± 0.7	-	-	-
Alert Level		15	-	-	4
Arizona Aquifer Water Quality Standard		-	-	-	5

All results in pico-curies per liter +/- a standard deviation of two (pCi/L +/- 2σ)
< = 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

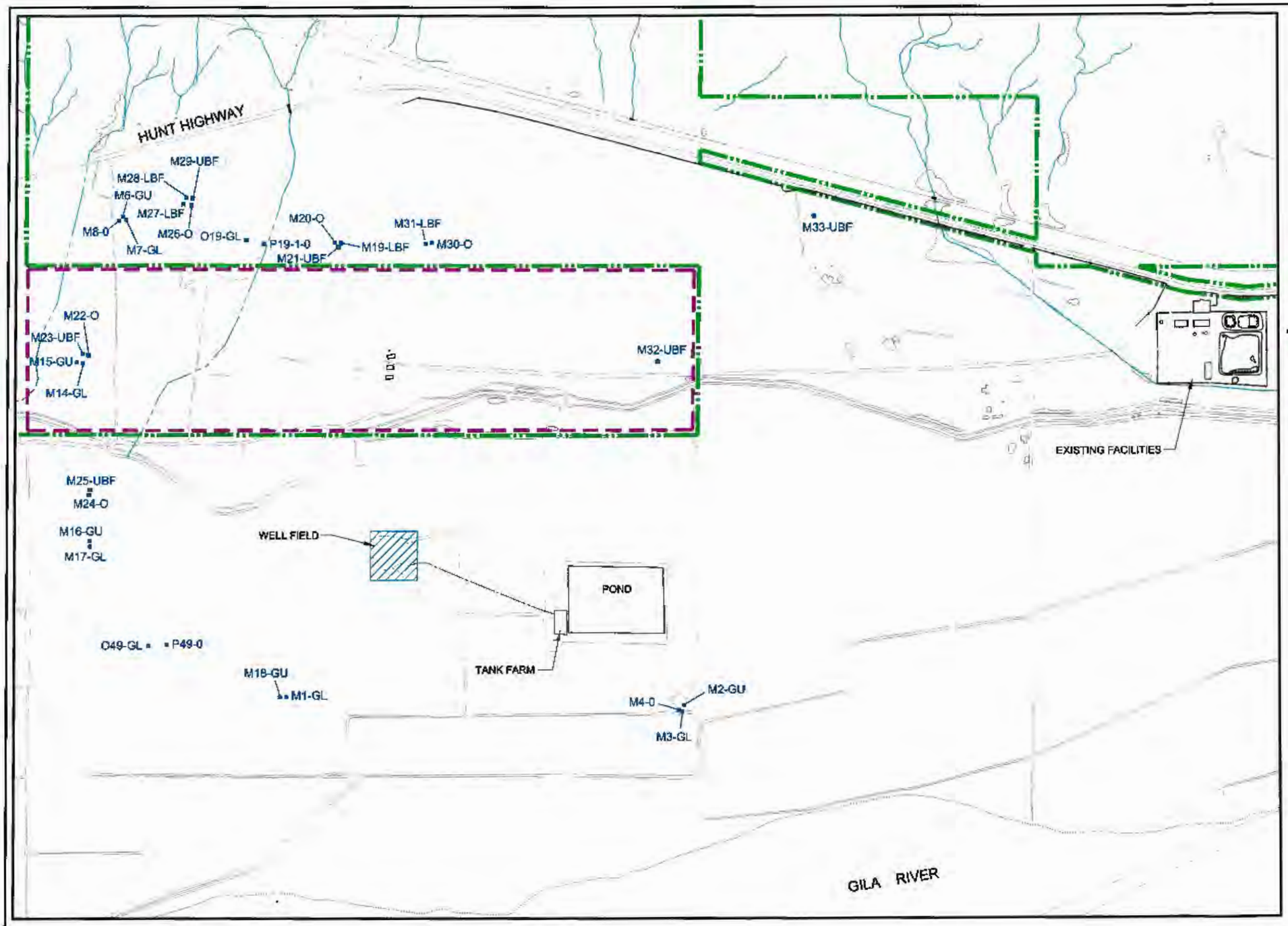
Well ID	Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylene	Total Petroleum Hydrocarbons-Diesel
M1-GL	Jul 13 2007	-	-	-	-	<0.13
M2-GU	Jul 13 2007	-	-	-	-	<0.12
M3-GL	Jul 13 2007	-	-	-	-	<0.12
M4-O	Jul 13 2007	-	-	-	-	<0.12
M6-GU	Jul 12 2007	-	-	-	-	<0.13
M7-GL	Jul 12 2007	-	-	-	-	<0.13
M8-O	Jul 12 2007	-	-	-	-	<0.13
M8-O (Dup)	Jul 12 2007	-	-	-	-	<0.13
M14-GL	Jul 12 2007	-	-	-	-	<0.13
M15-GU	Jul 12 2007	-	-	-	-	<0.13
M16-GU	Jul 13 2007	-	-	-	-	<0.12
M17-GL	Jul 13 2007	-	-	-	-	<0.12
M17-GL (Dup)	Jul 13 2007	-	-	-	-	<0.12
M18-GU	Jul 13 2007	-	-	-	-	<0.13
M19-LBF	Jul 11 2007	-	-	-	-	<0.15
M20-O	Jul 11 2007	-	-	-	-	<0.13
M21-UBF	Jul 11 2007	-	-	-	-	<0.13
M22-O	Jul 12 2007	-	-	-	-	<0.13
M23-UBF	Jul 12 2007	-	-	-	-	<0.13
M24-O	Jul 13 2007	-	-	-	-	<0.12
M25-UBF	Jul 13 2007	-	-	-	-	<0.13
M26-O	Jul 11 2007	-	-	-	-	<0.15
M27-LBF	Jul 11 2007	-	-	-	-	<0.15
M28-LBF	Jul 11 2007	-	-	-	-	<0.14
M28-LBF (Dup	Jul 11 2007	-	-	-	-	<0.14
M29-UBF	Jul 11 2007	-	-	-	-	<0.14
M30-O	Jul 11 2007	-	-	-	-	<0.13
M31-LBF	Jul 11 2007	-	-	-	-	<0.15
O19-GL	Jul 12 2007	-	-	-	-	<0.12
O49-GL	Jul 11 2007	-	-	-	-	<0.14
P19-1-O	Jul 12 2007	-	-	-	-	<0.13
P49-O	Jul 11 2007	-	-	-	-	<0.13
Alert Level		0.0025	0.35	0.5	5	R
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

TABLE 7. SUMMARY OF TRACE METAL ANALYTICAL RESULTS, BIENNIAL PARAMETERS

Well ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Thallium	Zinc
M1-GL	Jul 13 2007	<0.2	<0.003	0.002	0.025	<0.001	<0.001	0.0013	<0.001	0.0015	<0.05	<0.001	<0.0025	<0.0002	0.0037	<0.002	<0.001	<0.05
M2-GU	Jul 13 2007	<0.2	<0.003	0.003	0.049	<0.001	<0.001	0.001	<0.001	0.0027	0.068	<0.001	<0.0025	<0.0002	0.0046	<0.002	<0.001	<0.05
M3-GL	Jul 13 2007	<0.2	<0.003	0.0018	0.023	<0.001	<0.001	0.0013	<0.001	0.0019	<0.05	<0.001	<0.0025	<0.0002	0.0047	<0.002	<0.001	<0.05
M4-O	Jul 13 2007	<0.2	<0.003	<0.001	0.0075	<0.001	<0.001	0.0018	0.0011	0.0019	<0.05	<0.001	0.0042	<0.0002	0.0012	<0.002	<0.001	<0.05
M6-GU	Jul 12 2007	<0.2	<0.003	0.0013	0.0041	<0.001	<0.001	0.0079	<0.001	0.0027	<0.05	<0.001	<0.0025	<0.0002	<0.001	<0.002	<0.001	<0.05
M7-GL	Jul 12 2007	<0.2	<0.003	0.0022	0.0048	<0.001	<0.001	<0.001	0.0011	0.0041	<0.05	<0.001	0.0062	<0.0002	<0.001	<0.002	<0.001	<0.05
M8-O	Jul 12 2007	<0.2	<0.003	0.001	0.001	<0.001	<0.001	0.012	<0.001	0.0032	<0.05	<0.001	0.0031	<0.0002	<0.001	0.0042	<0.001	<0.05
M8-O (Dup)	Jul 12 2007	<0.2	<0.003	0.0011	<0.001	<0.001	<0.001	0.012	<0.001	0.0031	<0.05	<0.001	<0.0025	<0.0002	<0.001	0.005	<0.001	<0.05
M14-GL	Jul 12 2007	<0.2	<0.003	<0.001	0.017	<0.001	<0.001	0.0032	<0.001	0.0026	<0.05	<0.001	<0.0025	<0.0002	<0.001	<0.002	<0.001	<0.05
M15-GU	Jul 12 2007	<0.2	<0.003	0.0019	0.0045	<0.001	<0.001	0.0022	<0.001	0.0024	<0.05	<0.001	<0.0025	<0.0002	0.0045	<0.002	<0.001	<0.05
M16-GU	Jul 13 2007	<0.2	<0.003	0.0017	0.0064	<0.001	<0.001	0.001	<0.001	0.003	0.066	<0.001	0.028	<0.0002	0.0053	<0.002	<0.001	<0.05
M17-GL	Jul 13 2007	<0.2	<0.003	<0.001	0.0072	<0.001	<0.001	0.0031	<0.001	0.0021	<0.05	<0.001	0.0035	<0.0002	0.0012	<0.002	<0.001	<0.05
M17-GL (Dup)	Jul 13 2007	<0.2	<0.003	<0.001	0.007	<0.001	<0.001	0.0031	<0.001	0.0019	<0.05	<0.001	0.0032	<0.0002	0.0011	<0.002	<0.001	<0.05
M18-GU	Jul 13 2007	<0.2	<0.003	0.0026	0.051	<0.001	<0.001	0.0014	<0.001	0.0027	<0.05	<0.001	<0.0025	<0.0002	0.0042	<0.002	<0.001	<0.05
M19-LBF	Jul 11 2007	<0.2	<0.003	0.0014	0.034	<0.001	<0.001	0.0018	<0.001	0.0016	<0.05	<0.001	0.016	<0.0002	0.0023	<0.002	<0.001	<0.05
M20-O	Jul 11 2007	<0.2	<0.003	<0.001	0.0077	<0.001	<0.001	<0.001	0.0038	0.0017	0.56	<0.001	0.17	<0.0002	0.0021	0.002	<0.001	<0.05
M21-UBF	Jul 11 2007	<0.2	<0.003	0.0032	0.047	<0.001	<0.001	0.0015	<0.001	0.0027	<0.05	<0.001	<0.0025	<0.0002	0.0039	0.002	<0.001	<0.05
M22-O	Jul 12 2007	<0.2	<0.003	<0.001	0.0036	<0.001	<0.001	0.0012	<0.001	0.003	0.077	<0.001	0.012	<0.0002	0.0015	<0.002	<0.001	<0.05
M23-UBF	Jul 12 2007	<0.2	<0.003	0.0027	0.092	<0.001	<0.001	0.0015	0.001	0.0044	<0.05	<0.001	<0.0025	<0.0002	0.0076	<0.002	<0.001	<0.05
M24-O	Jul 13 2007	<0.2	<0.003	<0.001	0.0073	<0.001	<0.001	0.0044	0.0028	0.0049	<0.05	<0.001	0.0062	<0.0002	0.005	0.0097	<0.001	<0.05
M25-UBF	Jul 13 2007	<0.2	<0.003	0.0024	0.089	<0.001	<0.001	0.0019	0.0012	0.0037	<0.05	<0.001	<0.0025	<0.0002	0.0068	<0.002	<0.001	<0.05
M26-O	Jul 11 2007	<0.2	<0.003	0.0016	0.0012	<0.001	<0.001	0.0069	0.0012	0.0025	<0.05	<0.001	0.0035	<0.0002	<0.001	0.0045	<0.001	<0.05
M27-LBF	Jul 11 2007	<0.2	<0.003	0.0025	0.031	<0.001	<0.001	0.0013	0.0017	0.003	<0.05	<0.001	0.0039	<0.0002	0.0057	<0.002	<0.001	<0.05
M28-LBF	Jul 11 2007	<0.2	<0.003	0.0011	0.0045	<0.001	<0.001	0.0019	<0.001	0.0021	0.14	<0.001	0.0077	<0.0002	<0.001	<0.002	<0.001	<0.05
M28-LBF (Dup)	Jul 11 2007	<0.2	<0.003	0.0012	0.0047	<0.001	<0.001	0.0021	<0.001	0.0022	0.1	<0.001	0.0092	<0.0002	<0.001	<0.002	<0.001	<0.05
M29-UBF	Jul 11 2007	<0.2	<0.003	0.0026	0.08	<0.001	<0.001	0.0019	0.0025	0.0039	<0.05	<0.001	<0.0025	<0.0002	0.0067	<0.002	<0.001	<0.05
M30-O	Jul 11 2007	<0.2	<0.003	<0.001	0.015	<0.001	<0.001	0.0012	<0.001	0.0018	0.54	<0.001	0.018	<0.0002	0.0021	<0.002	<0.001	<0.05
M31-LBF	Jul 11 2007	<0.2	<0.003	0.0027	0.034	<0.001	<0.001	0.001	0.0026	0.0022	<0.05	<0.001	0.01	<0.0002	0.0036	<0.002	<0.001	<0.05
O19-GL	Jul 12 2007	<0.2	<0.003	0.0012	0.034	<0.001	<0.001	0.0021	0.002	0.0019	<0.05	<0.001	0.0046	<0.0002	0.0027	<0.002	<0.001	<0.05
O49-GL	Jul 11 2007	<0.2	<0.003	0.0013	0.0054	<0.001	<0.001	0.0028	0.0012	0.0027	<0.05	<0.001	<0.0025	<0.0002	0.0023	<0.002	<0.001	<0.05
P19-I-O	Jul 12 2007	<0.2	<0.003	0.0012	0.007	<0.001	<0.001	0.0012	<0.001	0.0038	<0.05	<0.001	<0.0025	<0.0002	0.0018	<0.002	<0.001	<0.05
P49-O	Jul 11 2007	<0.2	<0.003	<0.001	0.0027	<0.001	<0.001	0.0032	<0.001	0.012	<0.05	<0.001	<0.0025	<0.0002	0.0017	0.0027	<0.001	<0.05
Lowest Action Level		0.71	0.005	0.026	1	0.0032	0.005	0.061	0.005	0.51	2.2	0.026	0.22	0.0011	0.08	0.027	0.002	2.5
Arizona Aquifer Water Quality Standard		-	0.006	0.05	2	0.004	0.005	0.1	-	-	-	0.05	-	0.002	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 value may apply to individual results wells
R = Reserved



BROWN AND CALDWELL

Figure 1

MONITORING AREA

MERRILL MINING, L.L.C.
FLORENCE, ARIZONA

P:\Merrill Mining LLC\Florence Copper\21622 - Merrill Mining Project\Drawings\ES\21622015.dwg Oct 29, 2007 - 8:17am jcollier