

288-F ASH BASIN MIDYEAR GROUNDWATER REPORT FOR 2010
SRNS-TR-2010-00192
JULY 2010

Discussion and Results

The groundwater monitoring results for the 288-F Ash Basin's first sampling event of 2010 are shown in table 1. The results are sorted by laboratory qualifier. Field measurements and laboratory results exceeding the practical quantitation limit (PQL) were not assigned qualifiers and appear at the bottom of the table. Wells FAB 5D, 6D and 7D did not contain enough water to yield samples.

The following constituents were above the PQL:

- barium
- chromium
- lead
- nickel
- nitrate
- sulfate
- zinc

All of these analytes occur naturally. The 89.6 ug/L barium result from FAB 5C was the only result above background, and this result was less than 5% of the primary drinking water standard.

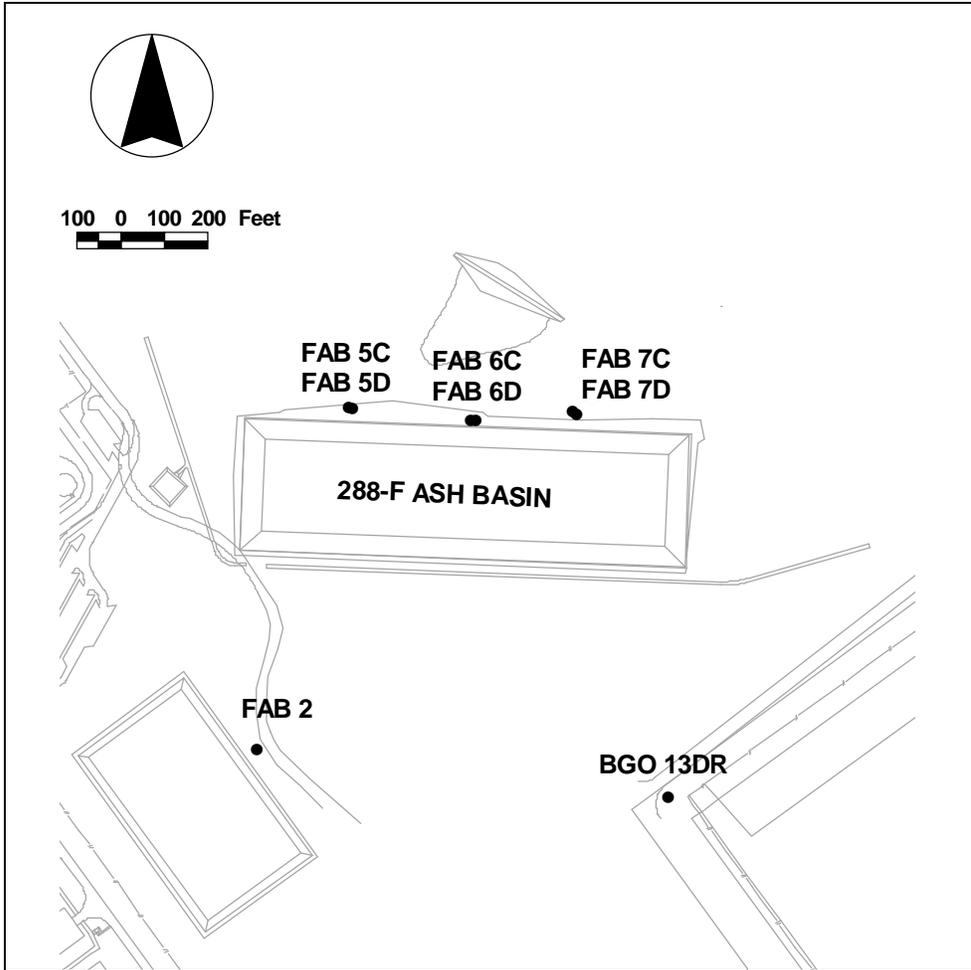


Figure 1. Locations of the 288-F wells.

Table 1. Groundwater monitoring results for the first sampling event of 2010.

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUALIFIER	RESULT	UNITS
FAB 6C	5/10/10	BARIUM	EPA6010C	1	5	J	2.14	ug/L
FAB 7C	5/10/10	BARIUM	EPA6010C	1	5	J	2.93	ug/L
FAB 6C	5/10/10	CHROMIUM	EPA6010C	1	5	J	1.66	ug/L
FAB 6C	5/10/10	LEAD	EPA6010C	3.3	10	J	7.08	ug/L
FAB 7C	5/10/10	LEAD	EPA6010C	3.3	10	J	4.67	ug/L
BGO 13DR	5/10/10	NICKEL	EPA6010C	1.5	5	J	3.39	ug/L
FAB 6C	5/10/10	NICKEL	EPA6010C	1.5	5	J	2.26	ug/L
BGO 13DR	5/10/10	CHROMIUM	EPA6010C	1	5	U	5	ug/L
FAB 7C	5/10/10	CHROMIUM	EPA6010C	1	5	U	5	ug/L
FAB 7C	5/10/10	NICKEL	EPA6010C	1.5	5	U	5	ug/L
BGO 13DR	5/10/10	BARIUM	EPA6010C	1	5		47.4	ug/L
FAB 5C	5/10/10	BARIUM	EPA6010C	1	5		89.6	ug/L
FAB 5C	5/10/10	CHROMIUM	EPA6010C	1	5		21.9	ug/L
BGO 13DR	5/10/10	COPPER	EPA6010C	3	10		199	ug/L
FAB 5C	5/10/10	COPPER	EPA6010C	3	10		13.7	ug/L
FAB 6C	5/10/10	COPPER	EPA6010C	3	10		17.9	ug/L
FAB 7C	5/10/10	COPPER	EPA6010C	3	10		16.6	ug/L
BGO 13DR	5/10/2010	DEPTH_TO_WATER					76	ft
FAB 2	5/10/2010	DEPTH_TO_WATER					101	ft
FAB 5C	5/10/2010	DEPTH_TO_WATER					101.56	ft
FAB 6C	5/10/2010	DEPTH_TO_WATER					137	ft
FAB 6D	5/10/2010	DEPTH_TO_WATER					84.5	ft
FAB 7C	5/10/2010	DEPTH_TO_WATER					121	ft
BGO 13DR	5/10/10	LEAD	EPA6010C	3.3	10		47	ug/L
FAB 5C	5/10/10	LEAD	EPA6010C	3.3	10		17.6	ug/L
FAB 5C	5/10/10	NICKEL	EPA6010C	1.5	5		12.9	ug/L
BGO 13DR	5/10/10	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.935	mg/L
BGO 13DR	5/10/10	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		1.02	mg/L
FAB 5C	5/10/10	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.77	mg/L
FAB 6C	5/10/10	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.399	mg/L
FAB 7C	5/10/10	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.297	mg/L
BGO 13DR	5/10/2010	PH					8.9	pH
FAB 2	5/10/2010	PH						pH
FAB 5C	5/10/2010	PH					7.3	pH
FAB 6C	5/10/2010	PH					5.7	pH
FAB 7C	5/10/2010	PH					5.1	pH
BGO 13DR	5/10/2010	SPECIFIC CONDUCTANCE					108	us/cm
FAB 2	5/10/2010	SPECIFIC CONDUCTANCE						us/cm
FAB 5C	5/10/2010	SPECIFIC CONDUCTANCE					116	us/cm

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FAB 6C	5/10/2010	SPECIFIC CONDUCTANCE				27	us/cm
FAB 7C	5/10/2010	SPECIFIC CONDUCTANCE				26	us/cm
BGO 13DR	5/10/10	SULFATE	EPA9056A	0.1	0.4	3.17	mg/L
BGO 13DR	5/10/10	SULFATE	EPA9056A	0.1	0.4	3.22	mg/L
FAB 5C	5/10/10	SULFATE	EPA9056A	0.1	0.4	2.25	mg/L
FAB 6C	5/10/10	SULFATE	EPA9056A	0.1	0.4	0.786	mg/L
FAB 7C	5/10/10	SULFATE	EPA9056A	0.1	0.4	2.49	mg/L
BGO 13DR	5/10/2010	TURBIDITY				1	NTU
FAB 2	5/10/2010	TURBIDITY					NTU
FAB 5C	5/10/2010	TURBIDITY				270	NTU
FAB 6C	5/10/2010	TURBIDITY				1.5	NTU
FAB 7C	5/10/2010	TURBIDITY				0.8	NTU
BGO 13DR	5/10/2010	WATER TEMPERATURE				19.5	degC
FAB 2	5/10/2010	WATER TEMPERATURE					degC
FAB 5C	5/10/2010	WATER TEMPERATURE				16.3	degC
FAB 6C	5/10/2010	WATER TEMPERATURE				20	degC
FAB 7C	5/10/2010	TEMPERATURE				19.6	degC
BGO 13DR	5/10/10	ZINC	EPA6010C	3.3	10	176	ug/L
FAB 5C	5/10/10	ZINC	EPA6010C	3.3	10	47.8	ug/L
FAB 6C	5/10/10	ZINC	EPA6010C	3.3	10	12.8	ug/L
FAB 7C	5/10/10	ZINC	EPA6010C	3.3	10	14.6	ug/L

Definitions:

MDL	method detection limit
PQL	practical quantitation limit
LAB QUALIFIER	USEPA Functional Guideline Codes applied by labs.

USEPA Functional Guideline Codes

- J The detected analyte was positively identified but the result is approximate.
- NJ The detected analyte was only tentatively identified and the result is approximate. All usable TIC results receive this code.
- U The analyte was analyzed for, but not detected. The sample detection and quantitation limits (MDL & SQL) are valid unless blank contamination is indicated.
- UJ The analyte was analyzed for, but not detected. The MDL & SQL are approximate, and may be inaccurate or imprecise.
- R The sample result is rejected as unusable due to serious deficiencies in meeting quality control criteria. The analyte may be present or absent.