Table 18.2-16. Baseline Water Quality in the Fruitland Coals at Navajo Mine

Well	Well Depth (feet)	Baseline Monitoring Period	pH (SU)		TDS -180° (mg/L)		Bicarbonate as HCO_3 (mg/L)		Carbonate as CO_3 (mg/L)		Chloride (mg/L)		Sulfate (mg/L)		Calcium (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
			n	median	n	median	n	median	n	median	n	median	n	median	n	median	n	median	n	median
KF84-21a (No 2)	118	1984-2001	30	7.9	30	8375	30	1197	17	<1	30	4445	30	63	30	13.3	30	14.9	30	13.3
KF84-21c (No 7)	75	1984	1	8.08	1	8505	1	919	1	68.4	1	3980	1	184	1	14.6	1	14.9	1	15.0
KF84-22a (No 8)	125	1984-2001	22	8.0	22	4650	22	1170	12	<1	22	290	22	2140	22	15.3	22	3.5	22	6.8
KF84-22b (No 7)	140	1984-2001	26	7.4	26	6115	25	854	15	<1	25	3220	26	<10	26	45.0	26	13.4	26	11.9
KF84-22d (No 3)	220	1984	1	7.94	1	8610	1	830	1	46.8	1	3420	1	<10	1	27.4	1	18.7	1	15.8
KF84-22e (No 2)	237	1984	2	7.98	2	8155	2	814	2	52.8	2	4185	2	24.5	2	35.6	2	17.5	2	16.3
KF84-20A (No 3)	190	1984-2001	26	7.93	26	7260	26	1090	23	<1	26	3715	26	<10	26	18.4	26	11.0	26	11.9
KF84-20C (No 7)	240	1984-2001	23	7.9	23	2770	23	1562	21	<1	23	715	23	7	23	9.6	23	2.8	23	5.9
KF84-18b (No 8)	133	1984-2001	25	7.1	25	9300	25	1030	13	<1	25	4900	25	<10	25	114.0	27	24.3	25	15.0
KF84-18a (No. 6)	181	1984-2001	26	7.47	26	13400	26	450	14	<1	26	7900	26	5.5	26	157.0	26	50.6	26	22.5
SJKF#2 (No. 8)	144	7/10/1984	1	7.03	1	43035	1	944	1	<1	1	23800	1	<10	1	515.0	1	222.0	1	56
SJKF#3 (No. 8)	120	7/10/1984	1	7.29	1	50810	1	673	1	<1	1	28200	1	<10	1	700.0	1	278.0	1	61
SJKF#4 (No. 8)	71	7/8/1984	1	8.06	1	7370	1	3232	1	276	1	2210	1	<10	1	26.5	1	9.2	1	13.5

Well	Well Depth (feet)	Baseline Monitoring Period	Sodium (mg/L)		Fluoride (mg/L)		Nitrate as N (mg/L)		Boron (mg/L)		Iron, total (mg/L)		Iron, diss.(mg/L)		Manganese, total (mg/L)		Manganese, diss. (mg/L)		Selenium, diss. (mg/L)	
			n	median	n	median	n	median	n	median	n	median	n	median	n	median	n	median	n	median
KF84-21a (No 2)	118	1984-2001	30	3080	30	1.56	5	0.1	30	0.61	21	0.100	30	0.100	21	0.020	30	0.0255	29	<0.005
KF84-21c (No 7)	75	1984	1	2858	1	1.79	1	394	1	0.63	1	-	1	0.015	1	-	1	0.3800	1	<0.001
KF84-22a (No 8)	125	1984-2001	22	1600	22	2.19	3	0.53	22	0.27	19	0.420	22	0.080	19	0.020	22	0.0143	22	<0.005
KF84-22b (No 7)	140	1984-2001	26	2210	25	0.89	1	0.08	25	0.39	23	1.130	26	0.195	23	0.300	26	0.300	26	<0.005
KF84-22d (No 3)	220	1984	1	2866	1	1.28	1	-	1	0.5	1	-	1	0.006	1	-	1	0.016	1	<0.001
KF84-22e (No 2)	237	1984	2	2803	2	1.23	2	-	2	0.51	2	-	2	0.005	2	-	2	0.140	2	<0.001
KF84-20A (No 3)	190	1984-2001	26	2690	26	1.39	2	0.115	26	0.55	17	2.730	26	0.235	17	0.180	26	0.100	26	<0.005
KF84-20C (No 7)	240	1984-2001	23	1040	23	1.74	2	0.18	21	0.42	16	0.640	23	0.180	16	0.075	23	0.082	23	<0.005
KF84-18b (No 8)	133	1984-2001	25	3380	25	0.44	3	0.1	25	0.73	17	11.900	25	<0.5	16	0.380	25	0.380	25	<0.005
KF84-18a (No. 6)	181	1984-2001	26	4640	26	0.66	2	0.1	26	0.72	17	3.80	26	0.25	17	1.33	26	1.32	19	<0.005
SJKF#2 (No. 8)	144	7/10/1984	1	13456	1	0.92	0	-	1	1.23	0	-	1	0.008	0	-	1	2.93	1	<0.001
SJKF#3 (No. 8)	120	7/10/1984	1	15632	1	0.97	0	-	1	1.43	0	-	1	0.018	0	-	1	0.71	1	<0.001
SJKF#4 (No. 8)	71	7/8/1984	1	2642	1	1.08	0	-	1	1.57	0	-	1	0.018	0	-	1	0.11	1	<0.001

Median calculation based on all but rejected sample results including field splits and non detected results

Rejected samples include: samples with no sampling or analysis date, samples with pH>11, samples that are clearly inconsistent with results of other damples
For less than detection limit, 1/2 the detection limit used for summary unles the median is a detection limit that is lower than any detected result
unhcaracerterized metals results included as dissolved metals in statistical summary