Table F-12. Results of monitoring well analyses for F-Area seepage basin[a]

FSB-76 Upgradient N76137.97 E51386.73 Elev = 294.2

Parameter	Units	DWS	2QR 82	3QR 82	4QR 82	1QR 83
Water Table Elevation	Ft		218.2	218.2	218.4	218.7
Coliform B	#/100 ml		0	2	20	5
Color	CU	15	3	30	3	2
Corrosion			No	No	No	No
Odor		3	0	1.4	1	1
pH	pH	6.5-8.5	4.6	4.9	5.0	4.8
Specific Conductivity	µmho/cm		50	56	64	63
TDS	mg/L	500	62	119	42	56
Temp	°C		19.2	19.4	19.7	17.2
Turbidity	1/TU		3.9	1.29	5.1	.2
Ag	mg/L	.05	<.001	<.001	<.001	<.001
As	mg/L	.05	<.002	<.002	<.002	.004
Ba	mg/L	1.0	.112	.44	.07	.12
Be	mg/L		<.010	<.005	<.005	<.005
Cd	mg/L	.01	<.001	.001	<.001	.003
Cr	mg/L	.05	.002	.003	.011	.005
Cu	mg/L	1.0	.004	.005	.012	.011
Fe	mg/L	.3	1.170	12.97	12.01	14.59
Hg	mg/L	.002	<.0002	<.0002	.0004	<.0002
Mn	mg/L	.05	.029	.056	.13	.06
Na	mg/L		11.24	8.74	10.99	14.35
Ni	mg/L		.004	.008	.027	.043
Pb	mg/L	.05	.106	.007	.011	.014
Se	mg/L	.01	<.002	<.002	<.002	<.002
Zn	mg/L	5	.052	.065	<.010	.100
Cl	mg/L	250	3	3	5.1	3.4
CN	mg/L		<.005	<.005	<.005	<.005
F	mg/L	1.6	.11	<.10	<.10	<.01
Foaming agents	mg/L	.5	<.01	<.01	<.01	.01
H_2S	mg/L		<1.0	<1.0	<1.0	<1.0
NO_3	mg/L	10	.05	3.13	4.51	4.81
SO_4	mg/L	250	<5	35	<5	<5
Gross Alpha	pCi/L	15	.6±.6	1.1±.7	0.4±6.2	1.7
Gross Beta	pCi/L		2±8	8.7±8.1	10.5±8.6	9.3
Ra	pCi/L	5	<.42	.27	.45	.51
DOC	mg/L		7	1.5	4	5.5
GC	µg/L		<40	<40	<40	<40
Phenols	mg/L		<.002	<.002	<.006	<.002
TOC	mg/L		<1	2.5	4	9.5
TOH	mg/L		.360	.830	.009	.012
Endrin	µg/L	.2	<.009	<.04	<.04	<.04
Lindane	µg/L	4	<.005	<1	<1	<1
Methoxychlor	µg/L	100	<.06	<20	<20	<20
Toxaphene	µg/L	5	<1.04	<1	<1	<1
24D	µg/L	100	<.41	<20	<20	<20
245TP	µg/L	10	<.13	<2	<2	<2

Table F-12. Results of monitoring well analyses for F-Area seepage basin (continued)a

FSB-77 Downgradient N75128.39 E50716.25 Elev = 273.3

Parameter	Units	DWS	2QR 82	3QR 82	4QR 82	1QR 83
Water Table Elevation	Ft		215.0	214.9	215.3	215.3
Coliform B	#/100 ml		16	0	00	2
Color	CU	15	10	>5	>5	50
Corrosion			No	No	No	No
Odor		3	0	1.4	0	1
pH	pH	6.5-8.5	3.8	3.7	3.8	3.8
Specific Conductivity	µmho/cm		707	620	104	13200
TDS	mg/L	500	896	796	829	648
Temp	°C		28	28	28	28
Turbidity	1/TU		1.0	.53	.4	.1
Ag	mg/L	.05	<.001	<.001	<.001	<.001
As	mg/L	.05	<.002	<.002	.004	<.002
Ba	mg/L	1.0	.106	.05	<.05	.08
Be	mg/L		<.010	<.005	<.005	<.005
Cd	mg/L	.01	.060	.049	<.023	.057
Cr	mg/L	.05	.001	.001	.012	.009
Cu	mg/L	1.0	.022	.013	.027	.026
Fe	mg/L	.3	3.239	15.72	21.27	23.6
Hg	mg/L	.002	<.0002	<.0002	.0003	<.0002
Mn	mg/L	.05	1.395	1.442	1.55	1.19
Na	mg/L		76.75	70.5	126.7	95.8
Ni	mg/L		.018	.020	.037	.034
Pb	mg/L	.05	.422	.008	.013	.019
Se	mg/L	.01	<.002	<.002	<.002	<.002
Zn	mg/L	5	.167	.093	<.065	.067
Cl	mg/L	250	4	3	5.6	3.1
CN	mg/L		<.005	<.005	<.005	<.005
F	mg/L	1.6	.19	<.10	.13	.01
Foaming agents	mg/L	.5	<.02	<.01	.02	<.01
H_2S	mg/L		<1.0	<1.0	<1.0	<1.0
NO_3	mg/L	10	81.5	60.2	159.05	91.6
SO_4	mg/L	250	<5	26	<5	<5
Gross Alpha	pCi/L	15	4.8±1.3	2.5±1	2.22±1.09	8.2
Gross Beta	pCi/L		2003±36	1660±32	2577±41	2829
Ra	pCi/L	5	10.10	14.16	18.95	20.10
DOC	mg/L		4	2.5	4	9.0
GC	µg/L		<40	<40	<40	<40
Phenols	mg/L		.004	.006	.009	<.002
TOC	mg/L		6	5.0	1	23.0
TOH	mg/L		.051	.042	.34	.018
Endrin	µg/L	.2	<.009	<.04	<.04	<.04
Lindane	µg/L	4	<.005	<1	<1	<1
Methoxychlor	µg/L	100	<.06	<20	<20	<20
Toxaphene	µg/L	5	<1.04	<1	<1	<1
24D	µg/L	100	<.41	<20	<20	<20
245TP	µg/L	10	<.13	<2	<2	<2

Table F-12. Results of monitoring well analyses for F-Area seepage basin (continued)[a]

FSB-78 Downgradient N74750.0 E50150.00 Elev = 272.5

Parameter	Units	DWS	2QR 82	3QR 82	4QR 82	1QR 83
Water Table Elevation	Ft		210.9	210.7	210.7	211.0
Coliform B	#/100 ml		0	0	0	0
Color	CU	15	10	>5	>5	20
Corrosion			No	No	No	No
Odor		3	0	1.4	6	4
pH	pH	6.5-8.5	3.1	2.9	2.8	2.7
Specific Conductivity	µmho/cm		1551	1700	1834	15500
TDS	mg/L	500	946	1183	964	1187
Temp	°C		22.2	22.0	23.0	19.6
Turbidity	1/TU		.66	.70	.8	.3
Ag	mg/L	0.05	<.001	<.001	<.001	<.001
As	mg/L	0.05	<.002	<.002	.034	.011
Ba	mg/L	1.0	.157	.34	<.05	.10
Be	mg/L		<.010	<.005	<.005	<.005
Cd	mg/L	0.01	.150	.100	<.047	.044
Cr	mg/L	0.05	.015	.023	.053	.030
Cu	mg/L	1.0	.098	.096	.071	.074
Fe	mg/L	0.3	2.379	5.362	44.02	79.64
Hg	mg/L	0.002	.0015	<.0002	.0340	.0536
Mn	mg/L	0.05	1.714	1.356	.845	.74
Na	mg/L		113.30	102.4	153.6	195.0
Ni	mg/L		.045	.085	.109	.065
Pb	mg/L	0.05	.080	.068	.017	.014
Se	mg/L	0.01	<.002	<.002	.008	<.002
Zn	mg/L	5	.259	.178	.196	.226
Cl	mg/L	250	2	2	5.6	2.3
CN	mg/L		<.005	.013	.006	<.005
F	mg/L	1.6	.73	<.10	.44	.51
Foaming agents	mg/L	0.5	.03	<.01	.04	.01
H_2S	mg/L		<1.0	1.0	<1.0	<1.0
NO_3	mg/L	10	198	159.46	262.4	235.2
SO_4	mg/L	250	10	7	20	10
Gross Alpha	pCi/L	15	41.3±3.7	35±3.4	19.06±3.14	37.7
Gross Beta	pCi/L		7969±69	6426±68	1116±27	799
Ra	pCi/L	5	14.70	23.23	23.94	15.60
DOC	mg/L		<1	1.5	<1	8.0
GC	µg/L		<40	<40	<40	<40
Phenols	mg/L		<.002	.017	.011	.022
TOC	mg/L		<1	1.0	1	18.0
TOH	mg/L		.024	.016	.007	.007
Endrin	µg/L	0.2	<.009	<.04	<.04	<.04
Lindane	µg/L	4	<.005	<1	<1	<11.3
Methoxychlor	µg/L	100	<.06	<20	<20	<20
Toxaphene	µg/L	5	<1.04	<1	<1	<1
24D	µg/L	100	<.41	<20	<20	<20
245TP	µg/L	10	<.13	<2	<2	<2

Table F-12. Results of monitoring well analyses for F-Area seepage basin (continued)[a]

FSB-79 Downgradient N73660.00 E50145.00 Elev = 217.7

Parameter	Units	DWS	2QR 82	3QR 82	4QR 82	1QR 83
Water Table Elevation	Ft		203.0	202.8	202.9	203.2
Coliform B	#/100 ml		0	0	0	0
Color	CU	15	0	1.4	0	0
Corrosion			No	No	No	No
Odor		3	3.5	4.2	4.6	4.1
pH	pH	6.5-8.5	4.5	5.1	5.4	4.5
Specific Conductivity	µmho/cm		56	29	20	0.63
TDS	mg/L	500	37	110	10	-
Temp	°C		17.8	20.5	21.4	15.9
Turbidity	1/TU		0.49	0.43	1.0	0.6
Ag	mg/L	0.05	<0.001	<0.001	<0.001	<0.001
As	mg/L	0.05	<0.002	<0.002	<0.002	<0.002
Ba	mg/L	1.0	0.092	0.16	0.07	<0.05
Be	mg/L		<0.010	<0.005	<0.005	<0.005
Cd	mg/L	0.01	0.002	0.001	<0.001	0.003
Cr	mg/L	0.05	0.003	0.002	0.003	0.002
Cu	mg/L	1.0	0.006	0.009	<0.002	0.002
Fe	mg/L	0.3	0.499	3.15	2.40	2.57
Hg	mg/L	0.002	0.0003	<0.0002	0.0004	<0.0002
Mn	mg/L	0.05	0.035	0.020	<0.02	0.04
Na	mg/L		4.11	2.05	2.45	8.95
Ni	mg/L		0.002	0.006	0.008	0.008
Pb	mg/L	0.05	0.020	0.003	0.005	0.002
Se	mg/L	0.01	<0.002	<0.002	<0.002	<0.002
Zn	mg/L	5	0.016	0.025	<0.010	0.019
Cl	mg/L	250	3	3	3.4	2.6
CN	mg/L		<0.005	<0.005	<0.005	<0.005
F	mg/L	1.6	0.10	0.50	<0.10	<.01
Foaming agents	mg/L	0.5	0.02	0.02	<0.01	<0.01
H_2S	mg/L		<1.0	<1.0	<1.0	<1.0
NO_3	mg/L	10	4.31	0.39	0.69	3.71
SO_4	mg/L	250	<5	21	<5	<5
Gross Alpha	pCi/L	15	0.8±0.6	3.9±1.2	0.74±0.66	0.9
Gross Beta	pCi/L		25±9	51.2±95	7.5±8.4	57
Ra	pCi/L	5	2.63	0.47	0.50	0.26
DOC	mg/L		5	<1.0	1	9.0
GC	µg/L		<40	<40	139	<40
Phenols	mg/L		<0.002	<0.002	0.007	<0.002
TOC	mg/L		3	<1.0	2	9.0
TOH	mg/L		0.120	0.850	0.026	0.012
Endrin	µg/L	0.2	<0.009	<0.04	<0.04	<0.04
Lindane	µg/L	4	<0.005	<1	<1	<1
Methoxychlor	µg/L	100	<0.06	<20	<20	<21
Toxaphene	µg/L	5	<1.04	<1	<1	<1
24D	µg/L	100	<0.41	<20	<20	<20
245TP	µg/L	10	<0.13	<[illegible]	<2	<2

[a]Adapted from Du Pont, 1983.