Appendix H

Historical Data Summary for Selected Media

Table H-1
NSP/Ashland Lakefront Site
Well Construction Summary

WELL ID	Top of Casing Elev (msl)	Ground Surface Elev (msl)	Water level measurement[1]	Groundwater Elev (msl)[1]	Depth to Top of Screen	Screen Length	Total Well Depth (from TOC)	Well Type	Location	Aquifer	Artesian? (yes/no)
AW-1	--	--	--	--	--	--	--	Potable	Kreher Park	Copper Falls	**yes**
AW-2	--	--	--	--	--	--	--	Potable	Kreher Park	Copper Falls	**yes**
MW-01	634.18	634.70	15.51	618.67	10.40	10.00	20.40	Monitoring	Filled Ravine	Water Table	no
MW-01 NET	608.40	605.57	7.11	601.29	6.90	10.00	16.90	Monitoring	Kreher Park	Water Table	no
MW-02 NET	608.23	605.30	6.85	601.38	6.50	10.00	16.50	Monitoring	Kreher Park	Water Table	no
MW-02A NET	607.99	605.30	--	--	47.60	5.00	52.60	Piezometer	Kreher Park	Copper Falls	**yes**
MW-02B NET	608.50	605.30	--	--	28.00	5.00	33.00	Piezometer	Kreher Park	Copper Falls	**yes**
MW-02AR	636.28	636.50	21.11	615.17	40.00	5.00	45.00	Piezometer	Upper Bluff	Copper Falls	no
MW-02BR	636.24	636.50	10.88	625.36	65.70	5.00	70.50	Piezometer	Upper Bluff	Copper Falls	no
MW-02C	--	636.50	10.02	--	192.00	5.00	197.00	Piezometer	Upper Bluff	Bedrock	no
MW-02R	637.43	636.50	15.27	622.16	11.40	10.00	21.40	Monitoring	Filled Ravine	Water Table	no
MW-03	637.83	638.20	2.77	635.06	4.21	10.00	14.21	Monitoring	Filled Ravine	Water Table	no
MW-03 NET	612.10	609.47	11.19	600.91	7.60	10.00	17.60	Monitoring	Kreher Park	Water Table	no
MW-04	641.03	641.70	5.08	635.95	4.50	10.00	14.50	Monitoring	Filled Ravine	Water Table	no
MW-04A	641.22	641.70	13.28	627.94	20.40	5.00	25.40	Piezometer	Upper Bluff	Copper Falls	no
MW-04B	640.98	641.70	16.05	624.93	47.30	5.00	52.30	Piezometer	Upper Bluff	Copper Falls	no
MW-05	633.82	634.30	18.12	615.70	17.30	10.00	27.30	Monitoring	Filled Ravine	Water Table	no
MW-05A	633.72	634.20	19.74	613.98	31.00	2.00	33.00	Piezometer	Upper Bluff	Copper Falls	no
MW-05B	633.89	634.30	19.35	614.54	43.50	5.00	48.50	Piezometer	Upper Bluff	Copper Falls	no
MW-05C	634.33	634.60	9.32	625.01	70.70	5.00	75.70	Piezometer	Upper Bluff	Copper Falls	no
MW-06	644.88	645.20	14.25	630.63	2.70	15.00	17.70	Monitoring	Filled Ravine	Water Table	no
MW-06A	644.79	645.20	19.46	625.33	41.60	5.00	46.80	Piezometer	Upper Bluff	Copper Falls	no
MW-07A	613.25	612.60	--	--	33.20	5.00	38.20	Piezometer	Kreher Park	Copper Falls	**yes**
MW-07B	--	612.60	--	--	52.80	5.00	57.80	Piezometer	Kreher Park	Copper Falls	**yes**
MW-07R	--	612.60	8.86	--	7.00	10.00	17.00	Monitoring	Kreher Park	Water Table	no
MW-08	634.42	634.90	3.53	630.89	5.50	10.00	15.50	Monitoring	Upper Bluff	Water Table	no
MW-08A	634.62	634.90	14.26	620.36	44.50	5.00	49.50	Piezometer	Upper Bluff	Copper Falls	no
MW-09	637.98	638.30	4.26	633.72	4.80	10.00	14.80	Monitoring	Filled Ravine	Water Table	no
MW-09A	637.86	638.34	15.48	622.38	130.50	5.00	135.50	Piezometer	Upper Bluff	Copper Falls	no
MW-09B	638.02	638.30	13.60	624.42	105.00	5.00	110.00	Piezometer	Upper Bluff	Copper Falls	no
MW-09C	637.95	638.30	15.50	622.45	155.00	5.00	160.00	Piezometer	Upper Bluff	Copper Falls	no
MW-10	638.20	638.40	4.46	633.74	4.48	15.00	19.48	Monitoring	Upper Bluff	Water Table	no
MW-10A	638.07	638.30	14.12	623.95	44.70	5.00	49.70	Piezometer	Upper Bluff	Copper Falls	no
MW-10B	638.00	638.20	24.03	613.97	30.00	5.00	35.00	Piezometer	Upper Bluff	Copper Falls	no
MW-11	636.13	636.50	6.76	629.37	4.87	10.00	14.87	Monitoring	Upper Bluff	Water Table	no
MW-13A	635.94	636.30	21.01	614.93	40.00	5.00	45.00	Piezometer	Upper Bluff	Copper Falls	no
MW-13B	635.90	636.30	20.94	614.96	65.00	5.00	70.00	Piezometer	Upper Bluff	Copper Falls	no

Table H-1
NSP/Ashland Lakefront Site
Well Construction Summary

WELL ID	Top of Casing Elev (msl)	Ground Surface Elev (msl)	Water level measurement[1]	Groundwater Elev (msl)[1]	Depth to Top of Screen	Screen Length	Total Well Depth (from TOC)	Well Type	Location	Aquifer	Artesian? (yes/no)
MW-13C	636.11	636.80	11.31	624.80	110.00	5.00	115.00	Piezometer	Upper Bluff	Copper Falls	no
MW-13D	637.09	637.30	11.51	625.58	134.20	5.00	139.20	Piezometer	Upper Bluff	Copper Falls	no
MW-14	639.15	639.70	3.63	635.52	1.60	10.00	14.50	Monitoring	Filled Ravine	Water Table	no
MW-15	641.21	641.60	4.54	636.67	4.50	10.00	14.50	Monitoring	Filled Ravine	Water Table	no
MW-15A	641.44	641.94	14.59	626.85	30.00	5.00	35.00	Piezometer	Upper Bluff	Copper Falls	no
MW-15B	641.47	641.97	16.61	624.86	49.20	5.00	54.20	Piezometer	Upper Bluff	Copper Falls	no
MW-16	642.20	642.50	0.57	641.63	5.62	10.00	15.62	Monitoring	Upper Bluff	Water Table	no
MW-17	633.88	634.40	2.33	631.55	7.08	10.00	17.08	Monitoring	Upper Bluff	Water Table	no
MW-17A	633.68	634.40	19.34	614.34	42.20	5.00	42.20	Piezometer	Upper Bluff	Copper Falls	no
MW-18A	635.57	635.80	20.53	615.04	27.05	5.00	44.80	Piezometer	Upper Bluff	Copper Falls	no
MW-18B	635.52	635.80	13.35	622.17	64.25	5.00	69.25	Piezometer	Upper Bluff	Copper Falls	no
MW-19A	636.76	637.00	21.05	615.71	35.20	5.00	45.20	Piezometer	Upper Bluff	Copper Falls	no
MW-19B	636.65	637.00	11.23	625.42	64.90	5.00	69.90	Piezometer	Upper Bluff	Copper Falls	no
MW-20A	642.65	642.90	24.73	617.92	26.80	5.00	31.80	Piezometer	Upper Bluff	Copper Falls	no
MW-21A	637.82	637.82	21.61	616.21	42.00	5.00	47.00	Piezometer	Upper Bluff	Copper Falls	no
MW-21B	637.80	638.00	20.86	616.94	50.00	5.00	55.00	Piezometer	Upper Bluff	Copper Falls	no
MW-22A	638.34	638.80	19.11	619.23	22.60	5.00	27.60	Piezometer	Upper Bluff	Copper Falls	no
MW-22B	638.50	638.80	13.98	624.52	49.50	5.00	54.50	Piezometer	Upper Bluff	Copper Falls	no
MW-23A	--	--	--	--	25.80	5.00	30.80	Piezometer	Kreher Park	Copper Falls	**yes**
MW-23B	--	--	--	--	45.90	5.00	50.90	Piezometer	Kreher Park	Copper Falls	**yes**
MW-24	--	--	2.78	--	4.50	10.00	14.50	Monitoring	Kreher Park	Water Table	no
MW-24A	--	--	--	--	46.00	5.00	51.00	Piezometer	Kreher Park	Copper Falls	**yes**
MW-25	--	--	2.27	--	5.40	10.00	15.40	Monitoring	Kreher Park	Water Table	no
MW-25A	--	--	--	--	45.00	5.00	50.00	Piezometer	Kreher Park	Copper Falls	**yes**
MW-26	--	--	3.25	--	4.50	10.00	14.50	Monitoring	Kreher Park	Water Table	no
MW-26A	--	--	--	--	55.00	5.00	60.00	Piezometer	Kreher Park	Copper Falls	**yes**
TW-9	608.84	606.29	7.78	601.06	6.20	10.00	16.20	Monitoring	Kreher Park	Water Table	no
TW-11	606.80	603.48	5.63	601.17	7.30	10.00	17.30	Monitoring	Kreher Park	Water Table	no
TW-12	608.45	606.03	4.65	603.80	6.45	10.00	16.45	Monitoring	Kreher Park	Water Table	no
TW-13	635.72	636.30	4.09	631.63	9.00	10.00	19.00	Monitoring	Filled Ravine	Water Table	no
P-24	--	--	3.08	--	11.00	1.00	12.00	Piezometer	Kreher Park	Kreher Park Fill	no
P-25	--	--	2.27	--	13.00	1.00	14.00	Piezometer	Kreher Park	Kreher Park Fill	no
P-26	--	--	3.29	--	12.00	1.00	13.00	Piezometer	Kreher Park	Kreher Park Fill	no
EW-1	636.05	636.70	--	--	35.00	20.00	55.00	Extraction	Upper Bluff	Copper Falls	no
EW-2	637.50	637.50	--	--	50.00	20.00	70.00	Extraction	Upper Bluff	Copper Falls	no
EW-3	638.00	638.00	--	--	30.00	20.00	50.00	Extraction	Upper Bluff	Copper Falls	no
EW-4	636.24	636.24	--	--	9.00	20.00	29.00	Extraction	Filled Ravine	Water Table	no

[1] Water levels measured on June 14, 2004.

Table H-2 Summary of Detected Constituents in Soil

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Location of Max	Avg of Det	Average with ND	95% UCL	Sed TEC	%>	Sed. PEC	%>
Semi-volatile Organics															
1,2,4-Trichlorobenzene	ug/kg	37%	31 / 84	100 – 100000	9.7	2994000	157000	TP-4	113300.54	76341.84	155486.62	8.0E+00	36.9%	1.8E+01	35.7%
1-Methylnaphthalene	ug/kg	67%	4 / 6	–	11000	1100000	660000	SB-4	520250.00	520250.00	928205.19				
2,4-Dimethylphenol	ug/kg	4%	1 / 24	330 – 46000	8200	8200		B-31	8200.00	2772.17	4916.65	2.9E+02	4.2%	2.9E+02	4.2%
2-Methylnaphthalene	ug/kg	59%	39 / 66	330 – 440	25	8745000	1209000	TP-4	380224.33	296616.78	553289.70	2.0E+01	59.1%	2.0E+02	50.0%
Acenaphthene	ug/kg	42%	36 / 85	330 – 39000	41	836000	782000	TW-6	110330.41	78351.66	111839.89	6.7E+00	42.4%	8.9E+01	40.0%
Acenaphthylene	ug/kg	38%	34 / 90	330 – 39000	83.5	1875000	354000	TP-4	100131.87	69969.87	118240.60	5.9E+00	37.8%	1.3E+02	36.7%
Anthracene	ug/kg	48%	43 / 90	330 – 39000	24	640000	324000	TP-4	62068.23	48919.07	68978.01	5.7E+01	42.2%	8.5E+02	34.4%
Benzo(a)anthracene	ug/kg	61%	55 / 90	330 – 440	17.3	323000	220000	TP-4	27780.33	23182.09	33407.22	1.1E+02	56.7%	1.1E+03	41.1%
Benzo(a)pyrene	ug/kg	62%	56 / 90	330 – 440	21.9	206000	205000	TP-5	25649.70	21792.25	30000.15	1.5E+02	55.6%	1.5E+03	36.7%
Benzo(b)fluoranthene	ug/kg	59%	53 / 90	330 – 440	14.9	200000	191000	B-31	21081.05	17490.56	24527.08	2.4E+02	52.2%	1.3E+04	15.6%
Benzo(g,h,i)perylene	ug/kg	42%	38 / 90	330 – 46000	9.9	86000	79000	TW-1	17116.38	12239.53	16115.12	1.7E+02	38.9%	3.2E+03	21.1%
Benzo(k)fluoranthene	ug/kg	51%	46 / 90	330 – 440	6.69	170000	74000	B-31	11784.70	9547.30	14022.05	2.4E+02	38.9%	1.3E+04	11.1%
Butyl benzyl phthalate	ug/kg	4%	1 / 24	330 – 46000	96	96		B-28	96.00	3281.57	96.00				
Chrysene	ug/kg	54%	49 / 90	330 – 440	11.8	313000	220000	TP-4	31686.77	25490.69	35756.75	1.7E+02	50.0%	1.3E+03	37.8%
Dibenzo(a,h)anthracene	ug/kg	13%	11 / 85	330 – 46000	97	10800	10600	TW-6	2910.27	3348.53	4486.43	3.3E+01	12.9%	1.4E+02	11.8%
Fluoranthene	ug/kg	68%	61 / 90	330 – 440	35	790000	605000	B-31	53433.23	45298.99	67997.63	4.2E+02	55.6%	2.2E+03	37.8%
Fluorene	ug/kg	44%	40 / 90	330 – 39000	1.95	1003000	320000	TP-4	78213.98	57319.98	84359.09	7.7E+01	40.0%	5.4E+02	33.3%
Indeno(1,2,3-cd)pyrene	ug/kg	51%	46 / 90	330 – 440	11.3	100000	65600	B-31	14741.97	11731.73	15460.44	2.0E+02	45.6%	3.2E+03	25.6%
Naphthalene	ug/kg	56%	52 / 93	13 – 440	17	10225000	1800000	TP-4	394048.94	315271.66	541281.40	1.8E+02	39.8%	5.6E+02	35.5%
o-Cresol	ug/kg	4%	1 / 24	330 – 46000	180	180		B-25	180.00	3283.48	180.00	6.7E+03	0.0%	6.7E+03	0.0%
p-Cresol	ug/kg	4%	1 / 24	330 – 46000	160	160		B-25	160.00	3282.61	160.00				
Phenanthrene	ug/kg	64%	58 / 90	330 – 39000	19.9	2690000	2256000	TP-4	207628.82	177407.16	263842.56	2.0E+02	50.0%	1.2E+03	38.9%
Phenol	ug/kg	8%	2 / 24	330 – 46000	350	1200	350	MW-9	775.00	3199.57	1200.00	4.2E+03	0.0%	1.2E+04	0.0%

Table H-2 Summary of Detected Constituents in Soil (continued)

Analyte	Units	Detection %	Detection Count		Range of Detection Limits	Min	Max	2nd Max	Location of Max	Avg of Det	Average with ND	95% UCL	Sed TEC	%>	Sed. PEC	%>
Phenolics, total recoverable	ug/kg	100%	1	1	–	8300	8300		1865N-1871E	8300.00	8300.00					
Pyrene	ug/kg	69%	62	90	330 – 440	46.6	945000	759000	TP-4	86794.59	75816.61	108563.50	2.0E+02	58.9%	1.5E+03	48.9%
Total Semi-VOCs	ug/kg	56%	15	27	330 – 440	52	6676200	3354000	B-31	847446.60	552748.87	1064775.94				

Notes: Analyte- Shown underlined if Max > Probable effects concentration (PEC) and in bold if 95% UCL > PEC; TEC = threshold effects concentration; PEC and TEC taken from from Consesus Based Sediment Quality Guidelines, December 2003; Cyanide standard is from Region V ESL; Min, Max, 2nd Max, and Avg of Detected Values represent only detected results; 95% UCL calculated using t statistic (normal distribution) but defaults to Max if greater than maximum detected result.

Table H-3 Summary of Detected Constituents in Sediment

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Location of Max	Avg of Det	Average with ND	95% UCL	Sed TEC	%>	Sed. PEC	%>
Semi-volatile Organics															
1,2,3-Trichlorobenzene	ug/kg	0%	1 / 216	28 – 57700	53	53		2800N-1300E	53.00	1160.46	53.00				
1,2,4-Trichlorobenzene	ug/kg	1%	2 / 216	28 – 57700	512	14800	512	2300N-1300E	7656.00	1206.88	1632.10	8.0E+00	0.9%	1.8E+01	0.9%
1-Methylnaphthalene	ug/kg	42%	138 / 327	19 – 40	12	783000	546000	2400N-1700E	39261.69	30441.33	38935.22				
1-Methylphenanthrene	ug/kg	24%	50 / 212	–	660	69000	69000	2400N-2000E	12014.00	12014.00	13927.93				
2,6-Dimethylnaphthalene	ug/kg	27%	58 / 212	–	330	160000	160000	2400N-2000E	23683.79	23683.79	27742.06				
2-Methylnaphthalene	ug/kg	43%	236 / 543	19 – 21000	10	2380000	2120000	2300N-1600E	110182.34	65366.98	81367.07	2.0E+01	42.5%	2.0E+02	37.2%
Acenaphthene	ug/kg	40%	218 / 543	19 – 21000	4.9	1020000	833000	2400N-1600E	57959.37	32481.83	39756.34	6.7E+00	40.0%	8.9E+01	34.8%
Acenaphthylene	ug/kg	22%	120 / 543	19 – 130000	5.1	130000	130000	2400N-2000E	8956.84	4017.09	5023.35	5.9E+00	21.7%	1.3E+02	15.8%
Anthracene	ug/kg	37%	202 / 543	19 – 21000	6.4	360000	300000	2300N-1600E	26994.99	14692.09	17703.76	5.7E+01	33.3%	8.5E+02	25.2%
Benzo(a)Anthracene	ug/kg	34%	184 / 543	19 – 130000	13	150000	140000	2300N-1600E	12211.78	6547.94	7801.29	1.1E+02	31.9%	1.1E+03	22.5%
Benzo(a)Pyrene	ug/kg	32%	172 / 543	19 – 130000	14	110000	110000	2400N-2100E	10085.62	5415.27	6419.16	1.5E+02	28.5%	1.5E+03	18.4%
Benzo(b)Fluoranthene	ug/kg	27%	146 / 543	19 – 130000	12	54000	51000	2400N-2100E	6020.34	3206.77	3773.43	2.4E+02	21.9%	1.3E+04	4.2%
Benzo(e)pyrene	ug/kg	23%	70 / 300	12 – 24	20	34000	34000	2400N-2000E	2616.71	1799.01	2300.09	1.5E+02	17.7%	1.5E+03	6.0%
Benzo(g,h,i)perylene	ug/kg	21%	116 / 543	19 – 130000	9	54000	46000	2400N-2100E	5046.13	2563.06	3048.18	1.7E+02	17.7%	3.2E+03	7.6%
Benzo(k)Fluoranthene	ug/kg	37%	124 / 331	19 – 130000	12	74000	71000	2400N-2100E	6754.48	3325.97	4183.73	2.4E+02	29.3%	1.3E+04	5.4%
Carbazole	ug/kg	7%	1 / 14	–	5100	5100		2400N-1400E	5100.00	5100.00					
Chrysene	ug/kg	34%	182 / 543	19 – 130000	16	130000	120000	2300N-1600E	11466.92	6119.39	7264.15	1.7E+02	30.6%	1.3E+03	21.5%
Dibenzo(a,h)Anthracene	ug/kg	17%	57 / 331	19 – 130000	17	6400	6100	2500N-1800E	1090.60	1246.10	1648.27	3.3E+01	16.0%	1.4E+02	11.8%
Dibenzofuran	ug/kg	58%	57 / 98	19 – 40	5.7	33500	25700	2400N-1700E	2219.60	1295.71	2147.16	1.5E+02	15.3%	5.8E+02	12.2%
Fluoranthene	ug/kg	40%	216 / 543	19 – 21000	31	330000	277000	2300N-1600E	25358.75	14289.00	17052.44	4.2E+02	34.4%	2.2E+03	26.3%
Fluorene	ug/kg	35%	192 / 543	19 – 21000	5.8	500000	400000	2300N-1600E	32615.34	16833.03	20416.80	7.7E+01	29.3%	5.4E+02	26.0%
Indeno(1,2,3-cd)Pyrene	ug/kg	21%	114 / 543	19 – 130000	6.7	49000	39000	2400N-2100E	4701.50	2434.02	2895.44	2.0E+02	15.8%	3.2E+03	7.4%
m & p-cresols	ug/kg	23%	20 / 88	13 – 42	34	1100	310	3100N-1900E	136.95	41.22	62.96				

Table H-3 Summary of Detected Constituents in Sediment (continued)

Analyte	Units	Detection %	Detection Count		Range of Detection Limits	Min	Max	2nd Max	Location of Max	Avg of Det	Average with ND	95% UCL	Sed TEC	%>	Sed. PEC	%>
Naphthalene	ug/kg	45%	245	543	19 – 21000	23	2710000	2540000	2300N-1600E	135647.39	82204.81	102009.78	1.8E+02	39.6%	5.6E+02	35.4%
Phenanthrene	ug/kg	45%	246	543	19 – 21000	18	1200000	999000	2400N-1600E	64794.80	40330.52	49099.24	2.0E+02	40.3%	1.2E+03	29.7%
Phenol	ug/kg	5%	4	88	19 – 41	16	69	69	2700N-850E	46.00	15.68	17.28	4.2E+03	0.0%	1.2E+04	0.0%
Pyrene	ug/kg	41%	223	543	19 – 21000	24	439000	410000	2400N-1600E	31213.48	18124.99	21713.46	2.0E+02	38.5%	1.5E+03	28.7%
Total PAH	ug/kg	57%	306	540	–	176.4	7247000	6938000	2300N-1600E	372631.39	372631.39	439188.70	1.6E+03	43.0%	2.3E+04	25.7%
Total Semi-VOCs	ug/kg	100%	10	10	–	2E+05	4898840	3503690	2400N-1700E	1505447.00	1505447.00	2478662.37				

Notes: Analyte- Shown underlined if Max > Probable effects concentration (PEC) and in bold if 95% UCL > PEC; TEC = threshold effects concentration; PEC and TEC taken from from Consesus Based Sediment Quality Guidelines, December 2003; Cyanide standard is from Region V ESL; Min, Max, 2nd Max, and Avg of Detected Values represent only detected results; 95% UCL calculated using t statistic (normal distribution) but defaults to Max if greater than maximum detected result.

Table H-4 - Summary of Detected Constituents in Artesian Wells

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Location of Max	Avg of Det Values	Average with ND	95% UCL	Fed MCL	%>	Reg 9 Tap	%>
NS-GWAW01															
Inorganics															
Aluminum	ug/L	50%	2/4	4.2 – 7.6	61	580	61	6/18/2004	320.50	161.73	570.80			3.6E+04	0.0%
Aluminum_MF	ug/L	33%	1/3	4.2 – 7.6	6	6		6/18/2004	6.00	3.97	6.00			3.6E+04	0.0%
Arsenic	ug/L	57%	4/7	2.6 – 2.6	2.1	5.2	5.07	12/17/2003	3.87	3.35	4.68	50	0.0%	4.5E-02	57.1%
Arsenic_MF	ug/L	33%	1/3	2.6 – 2.6	3.8	3.8		3/16/2004	3.80	2.13	3.80	50	0.0%	4.5E-02	133.3%
Barium	ug/L	100%	3/3	–	71	230	72	6/18/2004	124.33	124.33	230.00	2000	0.0%	2.6E+03	0.0%
Barium_MF	ug/L	100%	3/3	–	71	220	75	6/18/2004	122.00	122.00	220.00	2000	0.0%	2.6E+03	0.0%
Calcium	ug/L	100%	3/3	–	21000	130000	22000	6/18/2004	57666.67	57666.67	130000.00				
Calcium_MF	ug/L	100%	3/3	–	22000	130000	23000	6/18/2004	58333.33	58333.33	130000.00				
Chromium	ug/L	17%	1/6	0.51 – 0.64	1.8	1.8		6/18/2004	1.80	0.79	1.55				
Chromium (VI)	ug/L	33%	1/3	3.6 – 3.6	3.9	3.9		3/16/2004	3.90	2.50	3.90			1.1E+02	0.0%
Chromium_MF	ug/L	33%	1/3	0.51 – 0.64	0.63	0.63		3/16/2004	0.63	0.40	0.63				
Cobalt	ug/L	33%	1/3	0.67 – 0.71	1.5	1.5		6/18/2004	1.50	0.73	1.50			7.3E+02	0.0%
Copper	ug/L	33%	2/6	1.3 – 1.3	8	26	8	10/20/1994	17.00	8.83	19.24	1300	0.0%	1.5E+03	0.0%
Copper_MF	ug/L	33%	1/3	1.3 – 1.3	2.7	2.7		6/18/2004	2.70	1.33	2.70	1300	0.0%	1.5E+03	0.0%
Iron	ug/L	50%	3/6	29 – 33	10	610	15	6/18/2004	211.67	133.20	365.18			1.1E+04	0.0%
Lead	ug/L	50%	3/6	1 – 1	1.2	4.72	3.3	9/19/1994	3.07	2.43	4.11	15	0.0%		
Lead_MF	ug/L	67%	2/3	1 – 1	0.96	2.3	0.96	6/18/2004	1.63	1.25	2.30	15	0.0%		
Magnesium	ug/L	100%	3/3	–	6800	81000	6900	6/18/2004	31566.67	31566.67	81000.00				
Magnesium_MF	ug/L	100%	3/3	–	6800	83000	7400	6/18/2004	32400.00	32400.00	83000.00				
Manganese	ug/L	100%	3/3	–	29	230	29	6/18/2004	96.00	96.00	230.00			8.8E+02	0.0%
Manganese_MF	ug/L	100%	3/3	–	30	110	31	6/18/2004	57.00	57.00	110.00			8.8E+02	0.0%
Nickel	ug/L	33%	1/3	0.61 – 0.67	3.8	3.8		6/18/2004	3.80	1.48	3.80			7.3E+02	0.0%

Table H-4 - Summary of Detected Constituents in Artesian Wells (continued)

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Date Max Detected	Avg of Det Values	Average with ND	95% UCL	Fed MCL	%>	Reg 9 Tap	%>
Nickel_MF	ug/L	33%	1/3	0.61 – 0.67	3.1	3.1		6/18/2004	3.10	1.25	3.10			7.3E+02	0.0%
Potassium	ug/L	100%	3/3	–	3100	8100	3400	6/18/2004	4866.67	4866.67	8100.00				
Potassium_MF	ug/L	100%	3/3	–	3400	8000	3500	6/18/2004	4966.67	4966.67	8000.00				
Sodium	ug/L	100%	3/3	–	16000	46000	17000	6/18/2004	26333.33	26333.33	46000.00				
Sodium_MF	ug/L	100%	3/3	–	17000	48000	17000	6/18/2004	27333.33	27333.33	48000.00				
Vanadium	ug/L	33%	1/3	0.58 – 0.67	5.9	5.9		6/18/2004	5.90	2.18	5.90			2.6E+02	0.0%
Vanadium_MF	ug/L	33%	1/3	0.58 – 0.67	4.6	4.6		6/18/2004	4.60	1.74	4.60			2.6E+02	0.0%
Zinc	ug/L	50%	3/6	5 – 5	7.5	58	8	9/19/1994	24.50	15.70	36.41			1.1E+04	0.0%
Volatile Organics															
Xylenes (total)	ug/L	14%	1/7	0.25 – 1.1	1.51	1.51		12/10/1997	1.51	0.73	1.27	10000	0.0%	2.1E+02	0.0%
Semi-volatile Organics															
2-Methylnaphthalene	ug/L	8%	1/12	0.28 – 1.5	1.9	1.9		6/26/2002	1.90	0.58	0.85				
Dibutyl phthalate	ug/L	29%	2/7	0.23 – 1.1	1.5	4	1.5	1/25/1989	2.75	1.01	2.07			3.6E+03	0.0%
Naphthalene	ug/L	6%	1/17	0.36 – 1.7	6.8	6.8		6/26/2002	6.80	1.13	2.04			6.2E+00	5.9%
Miscellaneous Parameters															
Total Organic Carbon (TOC)	ug/L	33%	1/3	–	12600	12600		9/19/1994	12600.00	12600.00					

Table H-4 - Summary of Detected Constituents in Artesian Wells (continued)

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Date Max Detected	Avg of Det Values	Average with ND	95% UCL	Fed MCL	%>	Reg 9 Tap	%>
NS-GWAW02															
Inorganics															
Aluminum	ug/L	67%	2/3	7.6 – 7.6	5	7	5	3/16/2004	6.00	5.27	7.00			3.6E+04	0.0%
Aluminum_MF	ug/L	33%	1/3	4.2 – 7.6	6	6		6/18/2004	6.00	3.97	6.00			3.6E+04	0.0%
Arsenic	ug/L	60%	3/5	2.6 – 2.6	1.45	3.8	3.4	3/16/2004	2.88	2.49	3.80	50	0.0%	4.5E-02	60.0%
Arsenic_MF	ug/L	33%	1/3	2.6 – 2.6	3.1	3.1		6/18/2004	3.10	1.90	3.10	50	0.0%	4.5E-02	100.0%
Barium	ug/L	100%	3/3	–	72	77	76	12/17/2003	75.00	75.00	77.00	2000	0.0%	2.6E+03	0.0%
Barium_MF	ug/L	100%	3/3	–	73	78	75	3/16/2004	75.33	75.33	78.00	2000	0.0%	2.6E+03	0.0%
Calcium	ug/L	100%	3/3	–	20000	22000	21000	6/18/2004	21000.00	21000.00	22000.00				
Calcium_MF	ug/L	100%	3/3	–	20000	22000	22000	3/16/2004	21333.33	21333.33	22000.00				
Chromium	ug/L	20%	1/5	0.51 – 0.64	0.53	0.53		6/18/2004	0.53	0.37	0.52				
Chromium (VI)	ug/L	33%	1/3	3.6 – 3.6	3.9	3.9		3/16/2004	3.90	2.50	3.90			1.1E+02	0.0%
Chromium_MF	ug/L	33%	1/3	0.51 – 0.64	0.6	0.6		6/18/2004	0.60	0.39	0.60				
Copper	ug/L	20%	1/5	1.3 – 1.3	15	15		10/20/1994	15.00	4.24	11.79	1300	0.0%	1.5E+03	0.0%
Iron	ug/L	20%	1/5	29 – 33	18	18		10/20/1994	18.00	16.38	17.89			1.1E+04	0.0%
Lead	ug/L	17%	1/6	0.87 – 1	2.5	2.5		3/16/2004	2.50	1.15	2.17	15	0.0%		
Lead_MF	ug/L	67%	2/3	1 – 1	0.99	1.5	0.99	3/16/2004	1.25	1.00	1.50	15	0.0%		
Magnesium	ug/L	100%	3/3	–	6600	6900	6600	6/18/2004	6700.00	6700.00	6900.00				
Magnesium_MF	ug/L	100%	3/3	–	6400	7000	6800	6/18/2004	6733.33	6733.33	7000.00				
Manganese	ug/L	100%	3/3	–	30	39	39	12/17/2003	36.00	36.00	39.00			8.8E+02	0.0%
Manganese_MF	ug/L	100%	3/3	–	30	40	39	3/16/2004	36.33	36.33	40.00			8.8E+02	0.0%
Potassium	ug/L	100%	3/3	–	2600	3300	2700	6/18/2004	2866.67	2866.67	3300.00				
Potassium_MF	ug/L	100%	3/3	–	2700	3400	2700	6/18/2004	2933.33	2933.33	3400.00				
Selenium_MF	ug/L	33%	1/3	1.6 – 2.7	1.7	1.7		6/18/2004	1.70	1.28	1.70	50		1.8E+02	
Sodium	ug/L	100%	3/3	–	13000	17000	14000	6/18/2004	14666.67	14666.67	17000.00				

Table H-4 - Summary of Detected Constituents in Artesian Wells (continued)

Analyte	Units	Detection %	Detection Count	Range of Detection Limits	Min	Max	2nd Max	Date Max Detected	Avg of Det Values	Average with ND	95% UCL	Fed MCL	%>	Reg 9 Tap	%>
Sodium_MF	ug/L	100%	3/3	–	13000	17000	14000	6/18/2004	14666.67	14666.67	17000.00				
Volatile Organics															
Xylenes (total)	ug/L	20%	1/5	0.25 – 1.1	1.17	1.17		12/10/1997	1.17	0.62	1.17	10000	0.0%	2.1E+02	0.0%
Semi-volatile Organics															
Dibutyl phthalate	ug/L	17%	1/6	0.25 – 1.1	1.6	1.6		9/18/2002	1.60	0.52	1.00			3.6E+03	0.0%
Naphthalene	ug/L	7%	1/15	0.73 – 290	2.3	2.3		6/26/2002	2.30	16.73	2.30			6.2E+00	0.0%
Miscellaneous Parameters															
Total Organic Carbon (TOC)	ug/L	50%	1/2	–	4810	4810		9/19/1994	4810.00	4810.00					

Notes: Analyte- Shown in bold if Max > MCLs and underlined if 95% UCL > MCLs; Min, Max, 2nd Max, and Avg of Detected Values represent only detected results; 95% UCL calculated using t statistic (normal distribution) but defaults to Max if greater than maximum detected result