

**Table 3 - Ambient Ground Water Quality
Ambient Network Data Summary by Major Aquifer as of July 2005.**

FIELD PARAMETERS									
Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Oxidation-Reduction Potential (ORP) mV	Sand and Gravel	50.55	36	-163.0	534.0	122.1	75	na	na
	Sandstone	148.21	74.0	-137.0	600.0	228.8	22	na	na
	Carbonate	-33.19	-23.0	-264.0	162.0	107.5	27	na	na
pH, Field S.U.	Sand and Gravel	7.32	7.33	5.6	8.9	0.3	2775	na	na
	Sandstone	7.26	7.3	5.2	8.7	0.5	596	na	na
	Carbonate	7.25	7.2	5.6	9.3	0.4	984	na	na
Specific Conductivity umhos/cm	Sand and Gravel	646	625	50	2300	191	2941	na	na
	Sandstone	628	505	105	7900	491	643	na	na
	Carbonate	889	824	270	2900	322	993	na	na
Total Dissolved Solids, Field mg/L	Sand and Gravel	531	506	310	1202	141	68	na	na
	Sandstone	547	381	230	2075	415	21	na	na
	Carbonate	769	676	495	1549	258	23	na	na
Water Temperature Degrees C	Sand and Gravel	13.8	13.5	5.1	31.9	2.5	2644	na	na
	Sandstone	13.1	12.8	7.0	57.3	2.9	533	na	na
	Carbonate	13.5	13.1	6.9	25.0	1.9	932	na	na
MAJOR CONSTITUENTS									
Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Alkalinity, Total as CaCO ₃ mg/L	Sand and Gravel	262	269	< 5.0	1500	73.6	3439	6	0
	Sandstone	216	196	< 5.0	1500	112.9	715	4	1
	Carbonate	294	302	5	642	67.6	1033	5	0
Calcium, Total mg/L	Sand and Gravel	95.5	94	< 2	640	32.5	3533	4	0
	Sandstone	60.3	54	< 2	184	36.3	741	5	1
	Carbonate	133.0	117	2	613	68.6	1049	5	0

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Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Chloride mg/L	Sand and Gravel	39.4	29.8	< 2.0	420	36.8	3498	101	3
	Sandstone	39.4	22.0	< 1.0	530	50.1	733	65	9
	Carbonate	28.4	14.4	< 2.0	449	45.2	1014	103	10
Hardness, Total as CaCO ₃ mg/L	Sand and Gravel	355	360	< 10	974	86.2	2503	5	0
	Sandstone	227	202	< 10	691	130.9	557	4	1
	Carbonate	540	469	< 10	2010	249.0	779	6	1
Magnesium, Total mg/L	Sand and Gravel	28.8	29	< 1	135	10.3	3536	9	0
	Sandstone	19.4	16	< 1	76	13.8	742	5	1
	Carbonate	50.8	45	< 1	134	19.7	1051	6	1
Potassium, Total mg/L	Sand and Gravel	2.4	2.0	< 1	56.0	1.6	3089	419	14
	Sandstone	3.6	2.0	< 0.5	610.0	23.5	689	178	26
	Carbonate	3.0	3.0	1.1	14.0	1.3	938	14	1
Sodium, Total mg/L	Sand and Gravel	26.0	21	< 2	773	24.2	3529	71	2
	Sandstone	59.7	26	< 5	774	86.1	742	33	4
	Carbonate	36.8	28	< 5	472	32.2	1052	12	1
Sulfate mg/L	Sand and Gravel	81.0	68.0	< 5	1975	82.1	3497	36	1
	Sandstone	89.4	43.5	< 5	3750	198.7	737	56	8
	Carbonate	284.7	199.0	< 5	3150	267.4	1047	12	1
Total Dissolved Solids mg/L	Sand and Gravel	468	450	< 10	3050	163.6	3379	0	0
	Sandstone	425	338	< 10	2480	306.8	704	0	0
	Carbonate	771	678	< 10	2360	341.5	980	0	0
TRACE CONSTITUENTS									
Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Aluminum ug/L	Sand and Gravel	203.4	200.0	84.0	2880	88.2	2085	2078	100
	Sandstone	200.1	200.0	< 200.0	234	1.6	584	582	100
	Carbonate	205.2	200.0	< 200.0	1810	73.1	669	662	99
Arsenic, Total ug/L	Sand and Gravel	5.79	2.0	< 2.0	102	8.8	3085	1596	52
	Sandstone	3.13	2.0	< 2.0	78	4.8	671	505	75
	Carbonate	4.01	2.0	< 2.0	30	4.2	969	580	60

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Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Barium ug/L	Sand and Gravel	176.9	127.0	<15.0	2160	202.7	3039	129	4
	Sandstone	153.5	65.0	<15.0	2080	312.5	652	61	9
	Carbonate	71.4	40.0	<7.0	863	82.1	978	120	12
Cadmium, Total ug/L	Sand and Gravel	0.45	0.2	< 0.2	5.0	12.19	2504	2465	98
	Sandstone	0.24	0.2	< 0.2	18.8	0.73	666	653	98
	Carbonate	0.21	0.2	< 0.2	5.0	0.17	930	913	98
Chromium, Total ug/L	Sand and Gravel	30.0	30.0	< 0.2	110	2.18	2670	2650	99
	Sandstone	29.9	30.0	< 10.0	30	1.47	688	684	99
	Carbonate	29.9	30.0	< 10.0	90	2.77	962	947	98
Copper, Total ug/L	Sand and Gravel	12.37	10.0	< 2.0	405	16.99	2247	1935	86
	Sandstone	12.10	10.0	< 2.0	168	11.23	635	513	81
	Carbonate	15.20	10.0	< 2.0	387	29.16	709	523	74
Fluoride mg/L	Sand and Gravel	0.41	0.3	< 0.1	2.7	0.39	2016	403	20
	Sandstone	0.31	0.3	< 0.1	2.1	0.20	562	104	19
	Carbonate	1.38	1.4	< 0.1	3.2	0.57	685	13	2
Iron, Total ug/L	Sand and Gravel	1424.3	880.0	20.0	70000	2467.0	3479	614	18
	Sandstone	1617.8	437.0	< 50.0	36500	12716.8	731	134	18
	Carbonate	1230.8	710.0	< 40.0	96700	3427.8	1042	117	11
Lead, Total ug/L	Sand and Gravel	4.36	2.0	< 1.0	785	38.04	3086	2749	89
	Sandstone	2.43	2.0	< 2.0	40	2.45	681	609	89
	Carbonate	2.90	2.0	< 2.0	167	7.01	910	781	86
Manganese, Total ug/L	Sand and Gravel	226.4	117.0	<10.0	10880	486.6	3221	449	14
	Sandstone	205.8	84.5	<10.0	1910	316.2	699	108	15
	Carbonate	30.0	17.0	<10.0	300	30.8	959	296	31
Nickel, Total ug/L	Sand and Gravel	40.1	40.0	< 1.0	269	5.3	2173	2161	99
	Sandstone	41.1	40.0	<20.0	144	8.9	611	595	97
	Carbonate	40.2	40.0	< 20.0	97	3.0	711	707	99
Selenium, Total ug/L	Sand and Gravel	2.02	2.0	< 2.0	7	0.20	2310	2233	97
	Sandstone	2.00	2.0	< 2.0	3	0.04	643	638	99
	Carbonate	2.05	2.0	< 2.0	7	0.38	706	676	96
Strontium, Total ug/L	Sand and Gravel	1904.7	396.0	< 30.0	30800	4114.3	2164	8	0
	Sandstone	530.0	360.0	< 30.0	7480	690.0	597	5	1
	Carbonate	17870.7	16000.0	< 30.0	66200	12381.1	715	7	1

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Tritium T.U.	Sand and Gravel	9.6	10.1	< 0.8	42	5.5	106	8	8
	Sandstone	8.4	8.5	< 0.8	22	6.0	28	7	25
	Carbonate	3.9	1.3	< 0.8	13	4.0	40	16	40
Zinc, Total ug/L	Sand and Gravel	34.2	10.0	< 6.0	6300	207.6	2291	1502	66
	Sandstone	31.4	12.0	< 10.0	1600	76.5	636	288	45
	Carbonate	63.8	11.0	< 10.0	2420	194.3	711	325	46
NUTRIENTS									
Parameter and Units	Major Aquifer	Mean Value	Median Value	Minimum Value	Maximum Value	Standard Deviation	Number of Samples	Number Below Rep. Limit	Percent Censored
Ammonia-N mg/L	Sand and Gravel	0.26	0.08	< 0.01	42.0	0.87	3415	1296	38
	Sandstone	0.87	0.18	< 0.05	2.6	11.27	721	204	28
	Carbonate	0.39	0.34	< 0.05	5.1	0.39	1028	118	11
Chemical Oxygen Demand mg/L	Sand and Gravel	11.3	10.0	< 10.0	572	12.9	3320	2876	87
	Sandstone	10.9	10.0	< 4.0	227	9.1	708	632	89
	Carbonate	12.1	10.0	< 4.0	371	13.9	1034	833	81
NO ₂ +NO ₃ as N mg/L	Sand and Gravel	0.87	0.10	< 0.10	11.1	11.6	3467	1875	54
	Sandstone	0.37	0.10	< 0.10	19.1	1.1	739	532	72
	Carbonate	0.79	0.10	< 0.10	15.1	20.1	1037	896	86
Phosphorus, Total mg/L	Sand and Gravel	0.10	0.05	< 0.01	17.3	0.55	2692	2017	75
	Sandstone	0.10	0.05	< 0.01	4.4	0.28	599	363	61
	Carbonate	0.07	0.05	< 0.01	2.0	0.15	825	605	73
Total Kjeldahl N mg/L	Sand and Gravel	0.38	0.24	< 0.2	3.6	0.40	1274	546	43
	Sandstone	0.72	0.33	< 0.2	2.8	3.66	384	124	32
	Carbonate	0.55	0.46	0.1	5.3	0.49	459	78	17
Total Organic Carbon mg/L	Sand and Gravel	3.0	2.0	< 0.5	75	3.9	2438	1966	81
	Sandstone	2.6	2.0	< 1.0	57	3.0	634	539	85
	Carbonate	2.8	2.0	< 1.0	73	4.4	763	614	80

‡ records with '<' represent reporting limit

* Current reporting limits are listed in Table 1; generally, the minimum values are current or historical reporting limits.

§ na denotes not applicable