

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
WEST TRIBUTARY
SHUN-02**

Analyte	Units	9/27/2006	10/30/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/21/2007	4/23/2007	5/17/2007	6/19/2007	7/25/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008	2/26/2009	3/31/2009	4/28/2009	5/26/2009	6/29/2009
FIELD PARAMETERS																					
Field pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR CATIONS																					
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR ANIONS																					
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS																					
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NUTRIENTS																					
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																					
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab Conductivity	umho/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
* September 2006 results for TDS are calculated values
mg/L - milligrams per liter
NA- Analysis not performed
NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-16A**

Analyte	Units	9/29/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/21/2007	4/24/2007	5/17/2007	6/19/2007	7/25/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	7.22	7.64	NS	NS	NS	NS	7.66	8.45	8.73	9.87	9.44	8.59	6.35	8.32	7.38
Dissolved Oxygen	%	69.3	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/L	NA	7.7	NS	NS	NS	NS	10.38	8.8	11.12	12.75	5.02	8.41	0.11	11.76	71.7
Temperature	deg c	9.11	5.86	NS	NS	NS	NS	5.34	10.94	13	14	19	18.06	2.5	9.97	1.44
Field Conductivity	ms/cm	2.302	2.435	NS	NS	NS	NS	1.18	2.901	3.133	3.692	5.294	6.218	2.13	7.863	3.263
MAJOR CATIONS																
Dissolved Calcium	mg/L	38.7	50.1	NS	NS	NS	NS	34.7	106	73.3	39.4	46.4	94.2	114	214	84
Dissolved Magnesium	mg/L	19	25.9	NS	NS	NS	NS	14.9	47.2	43.4	49.8	67.6	75.1	75	130	48
Dissolved Potassium	mg/L	14.1	14.4	NS	NS	NS	NS	8.1	16.8	16.3	11.6	21.3	17	40	24	24
Dissolved Sodium	mg/L	481	511	NS	NS	NS	NS	182	567	645	727	1050	1520	1110	2020	836
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	674	583	NS	NS	NS	NS	141	440	303	17	245	636	378	811	250
Alkalinity, Carbonate as CaCO3	mg/L	34	28	NS	NS	NS	NS	< 4	9	27	210	85	51	< 0	< 0	< 0
Alkalinity, Phenolphthalein	mg/L	17	14	NS	NS	NS	NS	< 4	4	14	105	43	26	NA	NA	NA
Alkalinity, Total	mg/L	708	611	NS	NS	NS	NS	141	449	330	227	330	687	378	811	250
Chloride	mg/L	24	23.8	NS	NS	NS	NS	8.3	14.9	12.8	10.2	22.4	27	11	22	32
Fluoride	mg/L	0.96	0.76	NS	NS	NS	NS	0.18	0.35	0.44	0.31	0.48	0.55	0.16	0.55	0.24
Sulfate	mg/L	463	767	NS	NS	NS	NS	432	1000	1400	1690	2720	3240	2730	4600	3920
METALS																
Dissolved Aluminum	mg/L	0.29	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05
Total Aluminum	mg/L	7.38	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.62	0.79	2.16
Total Antimony	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.003	0.004	0.003
Total Arsenic	mg/L	0.0098	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.003	0.004	< 0.003
Total Barium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Boron	mg/L	NA	0.42	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Boron	mg/L	0.37	0.44	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	1.0	1.5	0.6
Total Cadmium	mg/L	0.02332	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.002	< 0.002	< 0.002
Total Chromium	mg/L	0.0098	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.001	< 0.001	0.002
Trivalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Copper	mg/L	0.0226	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.008	0.007	0.014
Dissolved Iron	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	1.26	0.05	< 0.025
Total Iron	mg/L	7.61	5.04	NS	NS	NS	NS	1.16	0.836	0.642	0.363	4.34	3.2	5.52	1.14	2.06
Total Lead	mg/L	0.0404	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.001	< 0.001	0.002
Total Manganese	mg/L	0.401	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	1.13	1.04	0.25
Dissolved Mercury	mg/L	NA	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Mercury (low level)	ug/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Mercury	mg/L	< 0.0002	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.00001	< 0.00002	0.00001
Total Molybdenum	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nickel	mg/L	0.0154	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.01	0.03	0.02
Total Selenium	mg/L	0.0022	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.001	0.002	< 0.001
Total Silver	mg/L	0.00101	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005
Dissolved Uranium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Uranium	mg/L	NA	NA	NS	NS	NS	NS	0.003	0.010	0.012	0.012	0.01	0.017	0.008	0.021	0.012
Total Vanadium	mg/L	< 0.05	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05
Dissolved Zinc	mg/L	< 0.01	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Zinc	mg/L	0.041	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01	0.01
NUTRIENTS																
Ammonia Nitrogen	mg/L	0.43	0.23	NS	NS	NS	NS	0.34	< 0.05	0.06	< 0.05	0.06	0.21	0.61	< 0.05	0.48
Nitrate-N	mg/L	0.01	0.01	NS	NS	NS	NS	0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.50
Nitrite-N	mg/L	0.06	0.02	NS	NS	NS	NS	0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.08
Nitrogen, Nitrate-Nitrite	mg/L	0.07	0.03	NS	NS	NS	NS	0.24	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.58
Phosphate, Ortho	mg/L	0.09	0.03	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	0.01	< 0.01	0.008
Phosphorus	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	0.25	0.32	0.14	0.19	0.118
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	1460 *	1850	NS	NS	NS	NS	729	2270	2420	2600	3930	4710	4200	6880	5510
Total Suspended Solids	mg/L	32	24	NS	NS	NS	NS	18	24	< 1	32	141	140	39	50	58
Lab Conductivity	umhos/cm	2134	2445	NS	NS	NS	NS	1159	2927	3058	3190	4851	5322	5140	8170	6370
Lab pH	pH units	8.5	8.4	NS	NS	NS	NS	7.7	8.3	8.5	9.2	9.6	8.6	7.3	8.5	8.4
Hardness	gr/gal	10.2	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Calcium Carbonate	mg/L	175	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease, Total Rec	mg/L	3.7	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium Adsorption Ratio	none	15.8	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	19.8	26.87	18.02
Total Organic Carbon	mg/L	54.5	51	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	ntu	94	58	NS	NS	NS	NS	11	10	6.6	2.5	27	28	40	29	35

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-16B**

Analyte	Units	9/27/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/21/2007	4/24/2007	5/17/2007	6/19/2007	7/25/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	7.69	8.25	8.38	8.6	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	10.78	5.79	10.03	9.73	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	4.89	5	11	17	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	0.39	0.439	0.337	0.486	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	31.6	38.6	30.3	33.6	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	13.2	14.3	11.2	18.9	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	22.5	25.8	17.6	22.6	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	7.9	12.1	11.2	23.7	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	48	70	89	172	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	< 4	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	< 4	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	48	70	89	172	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	7.7	7.0	2.9	2.8	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	0.15	0.32	0.55	0.58	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	92.6	151	52.4	47.7	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	3.39	4.1	42.9	12.2	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	< 0.002	0.003	0.005	0.010	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	0.08	0.05	0.09	0.11	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	14.7	0.02	0.09	< 0.01	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	0.44	< 0.01	0.86	< 0.01	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	15.1	0.02	0.95	< 0.01	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	253	397	433	355	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	64	112	1110	191	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	402	434	375	417	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	6.9	6.8	6.6	6.1	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	40	39	12	100	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L - milligrams per liter
 NA - Analytes not performed
 NS - Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-16C**

Analyte	Units	6/19/2007	7/24/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008	2/26/2009	4/1/2009	4/28/2009	5/26/2009	6/29/2009
FIELD PARAMETERS												
Field pH	pH units	9.69	10.26	9.57	NS	NS	NS	NS	7.41	7.6	8.82	8.12
Dissolved Oxygen	%	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Dissolved Oxygen	mg/L	13.42	3.28	10.9	NS	NS	NS	NS	9.06	7.07	10.2	8.02
Temperature	deg c	17	30	22.05	NS	NS	NS	NS	0.1	8.4	21.8	28.0
Field Conductivity	ms/cm	0.338	0.415	0.488	NS	NS	NS	NS	0.12	0.37	1.92	0.237
MAJOR CATIONS												
Dissolved Calcium	mg/L	19.2	17.1	15.1	NS	NS	NS	NS	6.3	10.5	15.9	20.5
Dissolved Magnesium	mg/L	8.4	6.2	7.8	NS	NS	NS	NS	3.4	4.6	6.6	9.1
Dissolved Potassium	mg/L	13.2	16.2	15	NS	NS	NS	NS	8.9	8.9	11.4	12.2
Dissolved Sodium	mg/L	28.6	42.9	67.5	NS	NS	NS	NS	4.3	4.8	5.7	7.5
MAJOR ANIONS												
Alkalinity, Bicarbonate as CaCO3	mg/L	129	27	91	NS	NS	NS	NS	35.4	27.1	85.2	117
Alkalinity, Carbonate as CaCO3	mg/L	< 4	82	62	NS	NS	NS	NS	< 5	< 2.5	1.8	11.7
Alkalinity, Phenolphthalein	mg/L	< 4	41	31	NS	NS	NS	NS	NA	NA	NA	NA
Alkalinity, Total	mg/L	129	109	153	NS	NS	NS	NS	34.4	27.1	87.0	129
Chloride	mg/L	2.4	2.3	4.4	NS	NS	NS	NS	1.2	0.9	0.8	0.50
Fluoride	mg/L	0.14	0.32	0.55	NS	NS	NS	NS	0.12	0.08	0.10	0.20
Sulfate	mg/L	76.6	53.2	59.5	NS	NS	NS	NS	9.5	10.5	7.4	2.7
METALS												
Dissolved Aluminum	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Aluminum	mg/L	NA	NA	NA	NS	NS	NS	NS	1.6	0.79	0.073	0.0058
Total Antimony	mg/L	NA	NA	NA	NS	NS	NS	NS	0.00028	0.00016	0.00021	0.00023
Total Arsenic	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0021	0.0026	0.0036	0.0063
Total Barium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.049	0.058	0.059	0.067
Dissolved Boron	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Boron	mg/L	NA	NA	NA	NS	NS	NS	NS	0.037	0.034	0.047	0.069
Total Cadmium	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.0001	< 0.0001	< 0.0001	< 0.00010
Total Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0018	0.0010	< 0.0005	< 0.00050
Trivalent Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0018	< 0.001	< 0.001	< 0.0010
Hexavalent Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.01	0.0076	< 0.001	0.00050
Total Copper	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0051	0.0034	0.0023	0.00073
Dissolved Iron	mg/L	NA	NA	NA	NS	NS	NS	NS	0.14	0.15	0.34	1.4
Total Iron	mg/L	2.49	1.78	23	NS	NS	NS	NS	1.5	0.85	0.67	2.3
Total Lead	mg/L	NA	NA	NA	NS	NS	NS	NS	0.00083	0.00054	0.00043	< 0.00010
Total Manganese	mg/L	NA	NA	NA	NS	NS	NS	NS	0.024	0.028	0.079	0.066
Dissolved Mercury	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Mercury (low level)	ug/L	NA	NA	NA	NS	NS	NS	NS	0.00696	0.00479	0.00397	0.00312
Total Mercury	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Molybdenum	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0011	0.0012	0.0017	0.0020
Total Nickel	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0045	0.0036	0.0032	0.0043
Total Selenium	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.0005	0.00032	0.00028	0.00032
Total Silver	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.0005	< 0.0005	< 0.0005	< 0.00050
Dissolved Uranium	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Uranium	mg/L	< 0.002	0.002	0.008	NS	NS	NS	NS	< 0.0005	< 0.0005	< 0.0005	< 0.00050
Total Vanadium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0036	0.0026	0.0015	0.00042
Dissolved Zinc	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Zinc	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0099	0.0047	0.0032	< 0.00050
NUTRIENTS												
Ammonia Nitrogen	mg/L	0.50	< 0.05	0.18	NS	NS	NS	NS	0.42	0.01	< 0.02	< 0.020
Nitrate-N	mg/L	0.01	< 0.01	0.1	NS	NS	NS	NS	2.1	0.004	0.050	< 0.010
Nitrite-N	mg/L	< 0.01	< 0.01	< 0.01	NS	NS	NS	NS	0.080	0.006	< 0.01	< 0.010
Nitrogen, Nitrate-Nitrite	mg/L	0.01	< 0.01	0.1	NS	NS	NS	NS	2.2	0.010	0.050	< 0.010
Phosphate, Ortho	mg/L	NA	NA	NA	NS	NS	NS	NS	0.44	0.21	0.061	0.15
Phosphorus	mg/L	NA	0.28	0.61	NS	NS	NS	NS	0.56	0.39	0.13	0.31
OTHER CONSTITUENTS												
Total Dissolved Solids	mg/L	201	276	502	NS	NS	NS	NS	109	101	121	134
Total Suspended Solids	mg/L	10	204	139	NS	NS	NS	NS	12.7	11.2	10.3	8.4
Lab Conductivity	umhos/cm	299	390	423	NS	NS	NS	NS	105	134	190	240
Lab pH	pH units	5.9	10.0	9.4	NS	NS	NS	NS	7.0	7.4	8.6	8.6
Hardness	gr/gal	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Hardness, Calcium Carbonate	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Oil & Grease, Total Rec	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Sodium Adsorption Ratio	none	NA	NA	NA	NS	NS	NS	NS	0.34	0.31	0.3	0.35
Total Organic Carbon	mg/L	NA	NA	NA	NS	NS	NS	NS	17.3	11.8	16.1	21
Turbidity	ntu	25	18	50	NS	NS	NS	NS	35.2	16.3	62.4	4.3

Notes:
 * September 2006 results for TDS are calculated values
 mg/L: milligrams per liter
 NA: Analytic not performed
 NS: Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-16D**

Analyte	6/19/2007	7/24/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008	2/26/2009	4/1/2009	4/28/2009	5/26/2009	6/29/2009
FIELD PARAMETERS											
Field pH	9.37	9.52	NS	NS	NS	NS	NS	7.27	8.23	8.1	7.93
Dissolved Oxygen	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Dissolved Oxygen	13.49	5.43	NS	NS	NS	NS	NS	11.58	8.41	7.8	6.82
Temperature	19	30.5	NS	NS	NS	NS	NS	0.155555556	8.222222222	19.46111111	26.17777778
Field Conductivity	0.344	0.423	NS	NS	NS	NS	NS	0.135	0.145	0.209	0.177
MAJOR CATIONS											
Dissolved Calcium	20.0	22.8	NS	NS	NS	NS	NS	10.0	13.5	18.5	15.7
Dissolved Magnesium	11.7	8.7	NS	NS	NS	NS	NS	3.8	5.0	6.3	5.7
Dissolved Potassium	14.5	18.4	NS	NS	NS	NS	NS	9.1	7.7	8.9	9.9
Dissolved Sodium	21.6	39.2	NS	NS	NS	NS	NS	4.0	6.2	7.2	8.1
MAJOR ANIONS											
Alkalinity, Bicarbonate as CaCO3	71	64	NS	NS	NS	NS	NS	43.0	26.7	88.0	177
Alkalinity, Carbonate as CaCO3	55	104	NS	NS	NS	NS	NS	< 5	< 2.5	< 5	7.8
Alkalinity, Phenolphthalein	27	52	NS	NS	NS	NS	NS	NA	NA	NA	NA
Alkalinity, Total	126	168	NS	NS	NS	NS	NS	43.0	26.7	88.0	185
Chloride	3.5	7	NS	NS	NS	NS	NS	1.0	0.9	0.7	1.2
Fluoride	0.25	0.5	NS	NS	NS	NS	NS	0.09	0.20	0.10	0.21
Sulfate	24.2	10.6	NS	NS	NS	NS	NS	12.8	22.3	20.5	11.8
METALS											
Dissolved Aluminum	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Aluminum	NA	NA	NS	NS	NS	NS	NS	1.6	3.0	2.0	2.8
Total Antimony	NA	NA	NS	NS	NS	NS	NS	0.00021	0.00022	0.00035	0.00035
Total Arsenic	NA	NA	NS	NS	NS	NS	NS	0.0024	0.0030	0.0038	0.0038
Total Barium	NA	NA	NS	NS	NS	NS	NS	0.061	0.082	0.11	0.098
Dissolved Boron	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Boron	NA	NA	NS	NS	NS	NS	NS	0.040	0.044	0.060	0.057
Total Cadmium	NA	NA	NS	NS	NS	NS	NS	< 0.0001	0.000058	< 0.0001	< 0.00010
Total Chromium	NA	NA	NS	NS	NS	NS	NS	0.0021	0.0036	0.0024	0.0032
Trivalent Chromium	NA	NA	NS	NS	NS	NS	NS	0.0021	< 0.001	0.0024	0.0024
Hexavalent Chromium	NA	NA	NS	NS	NS	NS	NS	< 0.01	0.0057	< 0.001	0.00080
Total Copper	NA	NA	NS	NS	NS	NS	NS	0.0057	0.0066	0.0064	0.0065
Dissolved Iron	NA	NA	NS	NS	NS	NS	NS	0.071	0.056	0.036	0.032
Total Iron	0.853	2.01	NS	NS	NS	NS	NS	1.7	2.9	2.5	3
Total Lead	NA	NA	NS	NS	NS	NS	NS	0.00093	0.0017	0.0016	0.0016
Total Manganese	NA	NA	NS	NS	NS	NS	NS	0.019	0.062	0.043	0.062
Dissolved Mercury	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Mercury (low level)	NA	NA	NS	NS	NS	NS	NS	0.00691	0.00674	0.00605	0.00801
Total Mercury	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Molybdenum	NA	NA	NS	NS	NS	NS	NS	0.0014	0.0016	0.0023	0.0022
Total Nickel	NA	NA	NS	NS	NS	NS	NS	0.0046	0.0056	0.0060	0.0060
Total Selenium	NA	NA	NS	NS	NS	NS	NS	0.00051	0.00045	0.00041	0.00048
Total Silver	NA	NA	NS	NS	NS	NS	NS	< 0.0005	< 0.0005	< 0.0005	< 0.00050
Dissolved Uranium	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Uranium	< 0.002	0.003	NS	NS	NS	NS	NS	< 0.0005	0.00033	0.00033	0.00026
Total Vanadium	NA	NA	NS	NS	NS	NS	NS	0.0044	0.0073	0.0060	0.0067
Dissolved Zinc	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Total Zinc	NA	NA	NS	NS	NS	NS	NS	0.0096	0.013	0.0093	0.010
NUTRIENTS											
Ammonia Nitrogen	< 0.05	0.06	NS	NS	NS	NS	NS	0.48	0.020	< 0.02	< 0.020
Nitrate-N	< 0.01	< 0.01	NS	NS	NS	NS	NS	2.4	0.002	0.010	< 0.010
Nitrite-N	< 0.01	< 0.01	NS	NS	NS	NS	NS	0.070	0.008	0.010	0.036
Nitrogen, Nitrate-Nitrite	< 0.01	< 0.01	NS	NS	NS	NS	NS	2.5	0.010	0.020	0.030
Phosphate, Ortho	NA	NA	NS	NS	NS	NS	NS	0.46	0.083	0.052	0.087
Phosphorus	NA	0.48	NS	NS	NS	NS	NS	0.53	0.19	0.13	0.072
OTHER CONSTITUENTS											
Total Dissolved Solids	229	297	NS	NS	NS	NS	NS	115	78	169	132
Total Suspended Solids	8	29	NS	NS	NS	NS	NS	7.9	41.3	16.1	9
Lab Conductivity	289	390	NS	NS	NS	NS	NS	139	159	208	180
Lab pH	6.0	9.8	NS	NS	NS	NS	NS	7.3	8.3	8.1	8.0
Hardness	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Hardness, Calcium Carbonate	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Oil & Grease, Total Rec	NA	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA
Sodium Adsorption Ratio	NA	NA	NS	NS	NS	NS	NS	0.27	0.37	0.37	0.44
Total Organic Carbon	NA	NA	NS	NS	NS	NS	NS	14.5	9.28	9.21	8.95
Turbidity	7.5	24	NS	NS	NS	NS	NS	41.8	72.5	3.2	82.4

Notes:
 * September 2006 results for TDS are calculated values
 mg/L= milligrams per liter
 NA- Analyte not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-17**

Analyte	Units	9/28/2006	10/30/2006	11/27/2006	12/19/2006	1/17/2007	2/19/2007	3/20/2007	4/24/2007	5/16/2007	6/19/2007	7/24/2007	8/21/2007	3/12/2008	4/24/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	7.47	8.03	7.7	8.07	7.86	NS	NS	NS	6.68
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	11.24	6.61	9.81	8.1	6.56	NS	NS	NS	9.7
Temperature	deg c	NS	NS	NS	NS	NS	NS	7.64	10	24	17	29	NS	NS	NS	3.41
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	0.492	0.446	0.338	0.366	0.87	NS	NS	NS	0.762
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	26.8	30.1	21.4	22.3	56.6	NS	NS	NS	64
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	14.9	16.9	11.2	11.4	30.3	NS	NS	NS	29
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	17.4	16.0	12.4	12.5	27.4	NS	NS	NS	13
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	25.2	31.4	24.6	22.8	58.6	NS	NS	NS	49
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	52	44	57	79	214	NS	NS	NS	11
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	< 4	< 4	NS	NS	NS	< 0
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	< 4	< 4	NS	NS	NS	NA
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	52	44	57	79	214	NS	NS	NS	10
Chloride	mg/L	NS	NS	NS	NS	NS	NS	7.7	6.3	4.0	3.7	15.3	NS	NS	NS	3
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	0.12	0.13	0.14	0.23	0.61	NS	NS	NS	< 0.1
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	173	200	113	83.5	207	NS	NS	NS	349
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.05
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	1.80
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.003
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.2
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.002
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.001
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.008
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.025
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	1.92	7.14	33.4	14	28.2	NS	NS	NS	2.3
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.003
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.12
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.00001
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.01
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.004
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.005
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	< 0.002	< 0.002	< 0.002	< 0.002	0.01	NS	NS	NS	< 0.002
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	< 0.05
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.01
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	0.08	0.27	0.46	0.62	1.86	NS	NS	NS	0.20
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	0.73	0	0.09	0.06	< 0.01	NS	NS	NS	9.91
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	0.06	0.03	0.03	< 0.01	< 0.01	NS	NS	NS	0.08
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	0.79	0.03	0.11	0.09	< 0.01	NS	NS	NS	9.99
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	0.016
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.54	NS	NS	NS	< 0.1
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	274	420	466	362	559	NS	NS	NS	606
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	27	77	139	82	1120	NS	NS	NS	9
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	434	456	378	326	867	NS	NS	NS	785
Lab pH	pH units	NS	NS	NS	NS	NS	NS	7.0	6.7	6.7	6.0	7.1	NS	NS	NS	7.4
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	1.28
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NS	NS	NS	NA
Turbidity	ntu	NS	NS	NS	NS	NS	NS	23	120	200	210	165	NS	NS	NS	4.2

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytist not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-17A**

Analyte	Units	6/19/2007	7/24/2007	8/21/2007	3/12/2008	4/24/2008	11/17/2008	2/26/2009	4/1/2009	4/28/2009	5/26/2009	6/29/2009
FIELD PARAMETERS												
Field pH	pH units	9.26	9	7.86	NS	NS	NS	NS	7.66	7.85	7.5	7.35
Dissolved Oxygen	%	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Dissolved Oxygen	mg/L	13.99	7.79	12.13	NS	NS	NS	NS	10.46	8.91	8.73	4.46
Temperature	deg c	15	29.3	24.01	NS	NS	NS	NS	1.1	8.9	22.7	29.3
Field Conductivity	ms/cm	2.062	3.036	5.169	NS	NS	NS	NS	0.529	0.954	1.941	1.375
MAJOR CATIONS												
Dissolved Calcium	mg/L	67.0	86.8	288	NS	NS	NS	NS	16.9	47.8	74.8	49.0
Dissolved Magnesium	mg/L	57.2	83.7	187	NS	NS	NS	NS	9.3	24.0	40.8	27.2
Dissolved Potassium	mg/L	12.4	19.2	34.2	NS	NS	NS	NS	11.3	11.4	15.3	13.3
Dissolved Sodium	mg/L	321	467	797	NS	NS	NS	NS	65.5	114	284	208
MAJOR ANIONS												
Alkalinity, Bicarbonate as CaCO3	mg/L	147	83	151	NS	NS	NS	NS	84.1	61.3	177	148
Alkalinity, Carbonate as CaCO3	mg/L	< 4	44	< 4	NS	NS	NS	NS	< 5	< 2.5	< 5	< 5.0
Alkalinity, Phenolphthalein	mg/L	< 4	22	< 4	NS	NS	NS	NS	NA	NA	NA	NA
Alkalinity, Total	mg/L	147	127	151	NS	NS	NS	NS	84.1	61.3	177	148
Chloride	mg/L	4.9	8.3	19.6	NS	NS	NS	NS	2.5	3.4	4.4	3.4
Fluoride	mg/L	0.28	0.44	0.47	NS	NS	NS	NS	0.18	0.15	0.20	0.36
Sulfate	mg/L	1010	1450	3120	NS	NS	NS	NS	173	384	914	576
METALS												
Dissolved Aluminum	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Aluminum	mg/L	NA	NA	NA	NS	NS	NS	NS	2.6	0.20	0.25	0.94
Total Antimony	mg/L	NA	NA	NA	NS	NS	NS	NS	0.00026	0.00020	0.00037	0.00064
Total Arsenic	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0030	0.0020	0.0027	0.0057
Total Barium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.062	0.087	0.099	0.049
Dissolved Boron	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Boron	mg/L	NA	NA	NA	NS	NS	NS	NS	0.12	0.15	0.33	0.27
Total Cadmium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.000078	< 0.0001	< 0.0001	< 0.00010
Total Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0029	0.00039	0.0010	0.0015
Trivalent Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0029	< 0.001	0.0010	0.0015
Hexavalent Chromium	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.01	0.0032	< 0.001	< 0.0010
Total Copper	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0064	0.0027	0.0039	0.0037
Dissolved Iron	mg/L	NA	NA	NA	NS	NS	NS	NS	0.062	0.16	0.12	0.097
Total Iron	mg/L	0.36	1.82	3.5	NS	NS	NS	NS	2.5	0.5	0.58	2.2
Total Lead	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0015	0.00024	0.00035	0.00081
Total Manganese	mg/L	NA	NA	NA	NS	NS	NS	NS	0.081	0.095	0.11	0.62
Dissolved Mercury	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Mercury (low level)	ug/L	NA	NA	NA	NS	NS	NS	NS	0.0110	0.00440	0.00552	0.00687
Total Mercury	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Molybdenum	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0016	0.0021	0.0044	0.0032
Total Nickel	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0049	0.0034	0.0059	0.0063
Total Selenium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.00064	0.00044	0.00052	0.00061
Total Silver	mg/L	NA	NA	NA	NS	NS	NS	NS	< 0.0005	< 0.0005	< 0.0005	< 0.00050
Dissolved Uranium	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Uranium	mg/L	0.005	0.009	0.017	NS	NS	NS	NS	0.00057	0.0021	0.0037	0.0010
Total Vanadium	mg/L	NA	NA	NA	NS	NS	NS	NS	0.0055	0.0013	0.0015	0.0028
Dissolved Zinc	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Total Zinc	mg/L	NA	NA	NA	NS	NS	NS	NS	0.012	0.0035	0.0034	0.0064
NUTRIENTS												
Ammonia Nitrogen	mg/L	< 0.05	< 0.05	0.08	NS	NS	NS	NS	0.40	0.01	0.030	< 0.020
Nitrate-N	mg/L	< 0.01	0.01	0.05	NS	NS	NS	NS	1.16	0.002	< 0.01	0.010
Nitrite-N	mg/L	< 0.01	< 0.01	< 0.01	NS	NS	NS	NS	0.040	0.008	0.006	< 0.010
Nitrogen, Nitrate-Nitrite	mg/L	< 0.01	0.01	0.05	NS	NS	NS	NS	1.2	0.010	< 0.01	0.010
Phosphate, Ortho	mg/L	NA	NA	NA	NS	NS	NS	NS	0.20	0.0045	0.0033	0.056
Phosphorus	mg/L	NA	< 0.1	< 0.1	NS	NS	NS	NS	0.32	0.088	0.083	0.13
OTHER CONSTITUENTS												
Total Dissolved Solids	mg/L	1500	2280	4370	NS	NS	NS	NS	372	614	1330	885
Total Suspended Solids	mg/L	16	78	36	NS	NS	NS	NS	8.9	7.1	10.2	9.7
Lab Conductivity	umhos/cm	1832	2902	4404	NS	NS	NS	NS	531	978	1880	1330
Lab pH	pH units	6.4	9.1	7.0	NS	NS	NS	NS	7.9	8.0	8.2	8.1
Hardness	gr/gal	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Hardness, Calcium Carbonate	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Oil & Grease, Total Rec	mg/L	NA	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA
Sodium Adsorption Ratio	none	NA	NA	NA	NS	NS	NS	NS	3.2	3.4	6.6	5.9
Total Organic Carbon	mg/L	NA	NA	NA	NS	NS	NS	NS	19.9	16	30.1	28.5
Turbidity	ntu	3.5	16	26	NS	NS	NS	NS	50.8	6.1	6.6	26.6

Notes:
 * September 2006 results for TDS are calculated values
 mg/L: milligrams per liter
 NA: Analytic not performed
 NS: Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-21A**

Analyte	Units	9/28/2006	10/27/2006	11/27/2006	12/19/2006	1/17/2007	2/18/2007	3/19/2007	4/23/2007	5/15/2007	6/20/2007	7/24/2007	8/21/2007	3/12/2008	4/24/2008	11/18/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L - milligrams per liter
 NA - Analytes not performed
 NS - Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-22**

Analyte	Units	9/28/2006	10/30/2006	11/27/2006	12/19/2006	1/17/2007	2/19/2007	3/20/2007	4/24/2007	5/17/2007	6/20/2007	7/24/2007	8/21/2007	3/12/2008	4/23/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	8.88	7.98	NS	NS	NS	NS	7.56	9.21	8.81	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	%	103.1	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NA	7.55	NS	NS	NS	NS	8.86	0.31	13.22	NS	NS	NS	NS	NS	NS
Temperature	deg c	10.92	0.11	NS	NS	NS	NS	12.66	10	20	NS	NS	NS	NS	NS	NS
Field Conductivity	ms/cm	0.341	0.356	NS	NS	NS	NS	0.43	8.62	0.289	NS	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	26.2	23.7	NS	NS	NS	NS	31.9	22.9	23.7	NS	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	9.8	9	NS	NS	NS	NS	11.4	9.3	5.6	NS	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	25.1	20.6	NS	NS	NS	NS	26.6	25.2	23.6	NS	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	18.4	17	NS	NS	NS	NS	13.8	16.5	6.7	NS	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	137	132	NS	NS	NS	NS	155	79	70	NS	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	< 4	< 4	NS	NS	NS	NS	< 4	25	< 4	NS	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	< 4	< 4	NS	NS	NS	NS	< 4	12	< 4	NS	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	137	132	NS	NS	NS	NS	155	104	70	NS	NS	NS	NS	NS	NS
Chloride	mg/L	7.6	7.8	NS	NS	NS	NS	12.9	14.4	2.2	NS	NS	NS	NS	NS	NS
Fluoride	mg/L	0.45	0.37	NS	NS	NS	NS	0.26	0.31	0.40	NS	NS	NS	NS	NS	NS
Sulfate	mg/L	30	39.3	NS	NS	NS	NS	53	54.3	38.0	NS	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	0.1	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Aluminum	mg/L	7.31	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Antimony	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Arsenic	mg/L	0.0088	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Barium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Boron	mg/L	0.13	0.11	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Cadmium	mg/L	0.00111	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Chromium	mg/L	0.0106	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Copper	mg/L	0.0214	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Iron	mg/L	8.27	9.12	NS	NS	NS	NS	4.15	0.4	1.72	NS	NS	NS	NS	NS	NS
Total Lead	mg/L	0.0158	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Manganese	mg/L	1.33	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NA	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Mercury	mg/L	< 0.0002	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Nickel	mg/L	0.0182	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Selenium	mg/L	0.0012	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Silver	mg/L	0.00035	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Uranium	mg/L	NA	NA	NS	NS	NS	NS	< 0.002	0.003	< 0.002	NS	NS	NS	NS	NS	NS
Total Vanadium	mg/L	< 0.05	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	< 0.01	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Zinc	mg/L	0.043	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	0.07	< 0.05	NS	NS	NS	NS	3.64	< 0.05	< 0.05	NS	NS	NS	NS	NS	NS
Nitrate-N	mg/L	< 0.01	0.02	NS	NS	NS	NS	0.05	< 0.01	21.8	NS	NS	NS	NS	NS	NS
Nitrite-N	mg/L	< 0.01	0.01	NS	NS	NS	NS	0.16	< 0.01	0.04	NS	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	< 0.01	0.03	NS	NS	NS	NS	0.21	< 0.01	21.8	NS	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	< 0.01	< 0.01	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Phosphorus	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	199 *	271	NS	NS	NS	NS	221	239	317	NS	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	180	245	NS	NS	NS	NS	67	18	35	NS	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	364	341	NS	NS	NS	NS	428	322	273	NS	NS	NS	NS	NS	NS
Lab pH	pH units	7.8	7.3	NS	NS	NS	NS	7.9	9.0	7.7	NS	NS	NS	NS	NS	NS
Hardness	gr/gal	6.19	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	106	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	3	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	0.78	NA	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	28.5	30	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
Turbidity	ntu	70	97	NS	NS	NS	NS	40	7.1	17	NS	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-23**

Analyte	Units	9/28/2006	10/30/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/20/2007	4/24/2007	5/16/2007	6/20/2007	7/25/2007	8/22/2007	3/11/2008	4/24/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	8.89	8.58	NS	NS	NS	NS	8	9.9	8.41	8.54	9.6	8.74	NS	NS	NS
Dissolved Oxygen	%	137.4	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Oxygen	mg/L	NA	11.16	NS	NS	NS	NS	9.34	13.18	4.49	2.35	NA	4.93	NS	NS	NS
Temperature	deg c	9.84	0.43	NS	NS	NS	NS	3.16	13	13	18	27.1	13.63	NS	NS	NS
Field Conductivity	ms/cm	3.528	2.896	NS	NS	NS	NS	1.282	1.458	1.635	2.011	2.626	4.478	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	97.3	90.5	NS	NS	NS	NS	44.1	57.4	60.5	64.1	46.2	93.4	NS	NS	NS
Dissolved Magnesium	mg/L	99.4	89.5	NS	NS	NS	NS	38.3	49.6	56.3	56.5	51.5	129	NS	NS	NS
Dissolved Potassium	mg/L	36.6	30	NS	NS	NS	NS	19.6	23.4	26.1	28.0	39	46.7	NS	NS	NS
Dissolved Sodium	mg/L	557	492	NS	NS	NS	NS	146	210	245	293	422	820	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	180	185	NS	NS	NS	NS	130	61	214	108	107	163	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	17	32	NS	NS	NS	NS	< 4	84	< 4	118	104	31	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	8	16	NS	NS	NS	NS	< 4	42	< 4	59	52	15	NS	NS	NS
Alkalinity, Total	mg/L	197	217	NS	NS	NS	NS	130	145	214	226	211	194	NS	NS	NS
Chloride	mg/L	13.5	14.9	NS	NS	NS	NS	8.2	10.2	10.5	8.3	24.3	47.8	NS	NS	NS
Fluoride	mg/L	0.41	0.4	NS	NS	NS	NS	0.2	0.22	0.26	0.41	0.66	0.61	NS	NS	NS
Sulfate	mg/L	1650	1660	NS	NS	NS	NS	483	614	666	906	950	2290	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	< 0.05	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Aluminum	mg/L	2.16	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Antimony	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Arsenic	mg/L	0.0394	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Barium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Boron	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Boron	mg/L	0.1	0.12	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Cadmium	mg/L	< 0.0002	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Chromium	mg/L	0.0052	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Trivalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Hexavalent Chromium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Copper	mg/L	0.0141	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Iron	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Iron	mg/L	2.04	7.89	NS	NS	NS	NS	1.65	0.266	0.478	0.232	5.55	5.08	NS	NS	NS
Total Lead	mg/L	0.0034	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Manganese	mg/L	0.402	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Mercury	mg/L	NA	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Mercury (low level)	ug/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Mercury	mg/L	< 0.0002	< 0.0002	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Molybdenum	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Nickel	mg/L	0.0151	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Selenium	mg/L	0.0043	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Silver	mg/L	0.00126	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Uranium	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Uranium	mg/L	NA	NA	NS	NS	NS	NS	0.003	0.004	0.004	0.002	0.014	0.005	NS	NS	NS
Total Vanadium	mg/L	< 0.05	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dissolved Zinc	mg/L	< 0.01	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Zinc	mg/L	0.022	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	1.77	1.25	NS	NS	NS	NS	1.81	< 0.05	2.12	0.89	0.1	0.22	NS	NS	NS
Nitrate-N	mg/L	0.02	0.01	NS	NS	NS	NS	0.67	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NS	NS	NS
Nitrite-N	mg/L	< 0.01	0.01	NS	NS	NS	NS	0.13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	0.02	0.02	NS	NS	NS	NS	0.8	< 0.01	< 0.01	0.52	< 0.01	< 0.01	NS	NS	NS
Phosphate, Ortho	mg/L	0.39	0.1	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Phosphorus	mg/L	NA	NA	NS	NS	NS	NS	NA	NA	NA	NA	0.47	1.4	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	2570 *	2700	NS	NS	NS	NS	808	1060	1420	1460	1790	3340	NS	NS	NS
Total Suspended Solids	mg/L	139	309	NS	NS	NS	NS	42	24	8	20	235	425	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	1211	1495	1726	1877	2402	3795	NS	NS	NS
Lab pH	pH units	8.6	8.7	NS	NS	NS	NS	7.7	9.7	7.7	8.6	9.6	8.7	NS	NS	NS
Hardness	gr/gal	38.1	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	652	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Oil & Grease, Total Rec	mg/L	3.9	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Sodium Adsorption Ratio	none	9.49	NA	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Total Organic Carbon	mg/L	45	70	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NS	NS
Turbidity	ntu	68	78	NS	NS	NS	NS	15	7.6	10	2.1	39	52	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L - milligrams per liter
 NA - Analytes not performed
 NS - Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-23A**

Analyte	Units	10/2/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/20/2007	4/25/2007	5/16/2007	6/20/2007	7/25/2007	8/22/2007	3/11/2008	4/23/2008	11/17/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	7.35	8.29	8.64	9.29	9.37	7.66	NS	8.44	7.35
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	8.61	7.08	8.61	7.22	1.96	4.5	NS	11.59	5.55
Temperature	deg c	NS	NS	NS	NS	NS	NS	2.18	11	11	18	22.9	12.69	NS	7.96	0.3
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	1,199	2,494	2,899	3,537	4,395	8,753	NS	1,348	9,476
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	39.4	87.2	92.4	57.2	39.8	319	NS	58	425
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	33.6	77.9	85.7	96.9	152	335	NS	44	379
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	8.4	9.4	10.1	8.7	21.3	41.4	NS	13	58
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	180	432	533	645	969	1790	NS	217	1740
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	200	295	422	218	352	389	NS	388	300
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	< 4	15	< 4	232	169	< 4	NS	13	< 0
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	< 4	7	< 4	116	85	< 4	NS	NA	NA
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	200	310	422	450	521	389	NS	402	300
Chloride	mg/L	NS	NS	NS	NS	NS	NS	6.1	9.2	9.8	7.2	22.6	35.7	NS	10	49
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	0.32	0.43	0.40	0.43	0.55	0.67	NS	0.63	0.37
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	370	1140	1250	1610	2630	5690	NS	375	5820
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.05	< 0.05
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.05	0.17
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.003	< 0.003
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	0.2	0.4
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.002	< 0.002
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.001	< 0.001
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	0.003	0.015
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	0.08	< 0.025
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	0.107	0.087	0.257	0.187	1.21	5.31	NS	0.16	0.24
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.001	< 0.001
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	0.016	0.14
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.00001	0.00002
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.01	0.05
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.001	0.005
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.005	< 0.005
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	0.012	0.017	0.013	0.011	0.015	0.09	NS	0.017	0.090
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.05	< 0.05
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	< 0.01	< 0.01
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	< 0.05	< 0.05	< 0.05	< 0.05	0.06	0.12	NS	< 0.05	0.10
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NS	< 0.01	0.50
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NS	< 0.01	0.02
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NS	< 0.01	0.52
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	0.04	0.008
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.25	0.46	NS	0.12	0.105
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	707	1790	1750	2600	3950	8210	NS	956	8960
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	3	< 1	17	44	52	198	NS	< 4	45
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	1208	2544	3046	3266	4727	6501	NS	1360	8810
Lab pH	pH units	NS	NS	NS	NS	NS	NS	8.0	8.4	7.9	8.8	9.4	7.8	NS	8.6	7.7
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	5.23	14.79
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS	NA	NA
Turbidity	ntu	NS	NS	NS	NS	NS	NS	2	0.7	15	1.1	10	45	NS	1.5	1.7

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-27**

Analyte	Units	9/29/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/19/2007	4/24/2007	5/15/2007	6/20/2007	7/25/2007	8/22/2007	3/12/2008	4/24/2008	11/18/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-28**

Analyte	Units	9/28/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/20/2007	4/24/2007	5/15/2007	6/19/2007	7/25/2007	8/22/2007	3/12/2008	4/24/2008	11/18/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	7.98	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	10.98	NS	NS	NS	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	6.18	NS	NS	NS	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	0.508	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	27.3	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	10.7	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	12.8	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	46.3	NS	NS	NS	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	35	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	< 4	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	< 4	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	35	NS	NS	NS	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	6	NS	NS	NS	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	0.18	NS	NS	NS	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	156	NS	NS	NS	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	1.12	NS	NS	NS	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	< 0.002	NS	NS	NS	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	< 0.05	NS	NS	NS	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	7.7	NS	NS	NS	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	0.19	NS	NS	NS	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	7.89	NS	NS	NS	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	297	NS	NS	NS	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	6	NS	NS	NS	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	507	NS	NS	NS	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	6.7	NS	NS	NS	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.

**ATTACHMENT B
SURFACE WATER QUALITY RESULTS
RESERVOIR/POND
SHRES-34**

Analyte	Units	10/2/2006	10/27/2006	11/27/2006	12/18/2006	1/17/2007	2/19/2007	3/20/2007	4/24/2007	5/16/2007	6/20/2007	7/25/2007	8/22/2007	3/1/2008	4/23/2008	11/18/2008
FIELD PARAMETERS																
Field pH	pH units	NS	NS	NS	NS	NS	NS	8.28	7.6	7.44	9.56	NS	NS	NS	NS	NS
Dissolved Oxygen	%	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Oxygen	mg/L	NS	NS	NS	NS	NS	NS	10.93	8.47	10.1	12.6	NS	NS	NS	NS	NS
Temperature	deg c	NS	NS	NS	NS	NS	NS	7.32	12	14	28	NS	NS	NS	NS	NS
Field Conductivity	mc/cm	NS	NS	NS	NS	NS	NS	0.365	0.666	0.724	0.589	NS	NS	NS	NS	NS
MAJOR CATIONS																
Dissolved Calcium	mg/L	NS	NS	NS	NS	NS	NS	39.7	82	91.8	56.8	NS	NS	NS	NS	NS
Dissolved Magnesium	mg/L	NS	NS	NS	NS	NS	NS	8.5	19.2	24.8	21.6	NS	NS	NS	NS	NS
Dissolved Potassium	mg/L	NS	NS	NS	NS	NS	NS	27.6	38.4	41.6	25.1	NS	NS	NS	NS	NS
Dissolved Sodium	mg/L	NS	NS	NS	NS	NS	NS	3.8	8.5	12	13.8	NS	NS	NS	NS	NS
MAJOR ANIONS																
Alkalinity, Bicarbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	58	110	131	37	NS	NS	NS	NS	NS
Alkalinity, Carbonate as CaCO3	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	46	NS	NS	NS	NS	NS
Alkalinity, Phenolphthalein	mg/L	NS	NS	NS	NS	NS	NS	< 4	< 4	< 4	23	NS	NS	NS	NS	NS
Alkalinity, Total	mg/L	NS	NS	NS	NS	NS	NS	58	110	131	83	NS	NS	NS	NS	NS
Chloride	mg/L	NS	NS	NS	NS	NS	NS	8.5	12.5	12.4	1.8	NS	NS	NS	NS	NS
Fluoride	mg/L	NS	NS	NS	NS	NS	NS	0.1	0.14	0.15	0.18	NS	NS	NS	NS	NS
Sulfate	mg/L	NS	NS	NS	NS	NS	NS	95.8	222	240	222	NS	NS	NS	NS	NS
METALS																
Dissolved Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Aluminum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Antimony	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Arsenic	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Barium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Boron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Cadmium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Trivalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Hexavalent Chromium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Copper	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Iron	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Iron	mg/L	NS	NS	NS	NS	NS	NS	0.119	1.18	0.558	0.45	NS	NS	NS	NS	NS
Total Lead	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Manganese	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Mercury (low level)	ug/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Mercury	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Molybdenum	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Nickel	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Selenium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Silver	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Uranium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Uranium	mg/L	NS	NS	NS	NS	NS	NS	< 0.002	< 0.002	< 0.002	< 0.002	NS	NS	NS	NS	NS
Total Vanadium	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Dissolved Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Zinc	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
NUTRIENTS																
Ammonia Nitrogen	mg/L	NS	NS	NS	NS	NS	NS	0.05	0.06	< 0.05	< 0.05	NS	NS	NS	NS	NS
Nitrate-N	mg/L	NS	NS	NS	NS	NS	NS	1.26	< 0.01	< 0.01	< 0.01	NS	NS	NS	NS	NS
Nitrite-N	mg/L	NS	NS	NS	NS	NS	NS	0.11	< 0.01	< 0.01	< 0.01	NS	NS	NS	NS	NS
Nitrogen, Nitrate-Nitrite	mg/L	NS	NS	NS	NS	NS	NS	1.37	< 0.01	< 0.01	< 0.01	NS	NS	NS	NS	NS
Phosphate, Ortho	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Phosphorus	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
OTHER CONSTITUENTS																
Total Dissolved Solids	mg/L	NS	NS	NS	NS	NS	NS	249	493	523	382	NS	NS	NS	NS	NS
Total Suspended Solids	mg/L	NS	NS	NS	NS	NS	NS	11	23	15	10	NS	NS	NS	NS	NS
Lab Conductivity	umhos/cm	NS	NS	NS	NS	NS	NS	379	687	787	571	NS	NS	NS	NS	NS
Lab pH	pH units	NS	NS	NS	NS	NS	NS	7.4	7.1	7.1	5.9	NS	NS	NS	NS	NS
Hardness	gr/gal	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Hardness, Calcium Carbonate	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Oil & Grease, Total Rec	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Sodium Adsorption Ratio	none	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Total Organic Carbon	mg/L	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NS	NS	NS	NS	NS
Turbidity	ntu	NS	NS	NS	NS	NS	NS	4	9.3	3.6	1.6	NS	NS	NS	NS	NS

Notes:
 * September 2006 results for TDS are calculated values
 mg/L- milligrams per liter
 NA- Analytes not performed
 NS- Site visited, sample not collected because dry or frozen.