

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-1S	21-Apr-03	14	5.3	6.0	10	11.8		17
	26-Apr-04	14	5.8	5.8	15	11.2		
	1-Nov-04	14	5.3	6.4	12	13.6		22
	27-Jun-05	14	5.5	4.9	17	13.7	283	24
	12-Jun-06	14	4.8	5.0	16	13.6		14
	20-Aug-07	14	5.3	1.7	17	17.0	196	22
	Representative value			5.3	5.4	16	13.6	240
BC-1i	21-Apr-03	45	5.4	6.9	11	12.6		<10
	27-Apr-04	45	5.8	6.4	12	12.3		10
	1-Nov-04	42	3.9	9.4	14	12.2		25
	27-Jun-05	45	5.6	0.2	14	12.7	197	20
	12-Jun-06	40	5.1	9.7	16	12.8		14
	20-Aug-07	45	5.8	7.1	16	14.1	198	21
	Representative value			6	7	14	13	198
BC-1D	21-Apr-03	141	7.1	0.1	69	13.7		64
	26-Apr-04	141	6.6	0.3	55	14.6		
	2-Nov-04	141	7.0	0.1	69	14.5		64
	27-Jun-05	100	6.9	0.3	73	13.6	125	67
	12-Jun-06	141	6.5	0.9	77	14.1		64
	20-Aug-07	141	6.1	0.1	90	13.7	24	68
	Representative value			7	0.2	71	14	75

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-1S	21-Apr-03	14	3.9	4.2	0.80	0.53	0.26	0.99
	26-Apr-04	14	<5	4.1	0.80	0.51	0.22	0.99
	1-Nov-04	14	<2.5	4.2	0.78	0.55	0.33	1.10
	27-Jun-05	14	<2.5	4.9	0.95	0.62	0.35	1.50
	12-Jun-06	14	<2.5	7.1	1.90	0.56	0.37	1.30
	20-Aug-07	14	<6.2	4.1	0.81	0.51	0.45	1.40
	Representative value		<2.5	4.2	0.81	0.54	0.34	1.20
	BC-1i	21-Apr-03	45	<2.2	3.9	0.76	0.48	0.24
27-Apr-04		45		3.8	0.73	0.47	0.21	0.81
1-Nov-04		42	<2.5	5.0	1.10	0.54	0.32	1.30
27-Jun-05		45	<2.5	4.2	0.80	0.53	0.31	1.10
12-Jun-06		40	<2.5	4.2	0.80	0.54	0.30	1.10
20-Aug-07		45	<6.2	4.1	0.80	0.52	0.32	1.10
Representative value			<2.5	4.2	0.80	0.53	0.31	1.10
BC-1D		21-Apr-03	141	<2.1	22.7	7.10	1.20	0.72
	26-Apr-04	141	<2.5	20.8	6.50	1.10	0.62	3.60
	2-Nov-04	141	<2.5	20.8	6.50	1.10	0.75	4.40
	27-Jun-05	100	<2.5	23.8	7.40	1.30	0.80	5.10
	12-Jun-06	141	<2.5	25.1	7.90	1.30	0.86	5.60
	20-Aug-07	141	<6.2	23.4	7.40	1.20	0.85	5.20
	Representative value		<2.5	23.0	7.25	1.20	0.78	4.90

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-1S	21-Apr-03	14	6	<1	<5			<0.2
	26-Apr-04	14	6.2					
	1-Nov-04	14	6	<1	<2	<0.02	<0.01	<0.02
	27-Jun-05	14	<1	<1	<2	<0.02	<0.01	<0.2
	12-Jun-06	14	2	<1	<2	<0.02	<0.01	<0.2
	20-Aug-07	14	4	<1	<2	<0.02	<0.01	<0.2
	Representative value		6	<1	<2	<0.02	<0.01	<0.2
BC-1i	21-Apr-03	45	5	<1	<5			<0.2
	27-Apr-04	45		<5	<2	<0.02	<0.01	<0.02
	1-Nov-04	42	7	<1	<2	0.35	<0.01	<0.2
	27-Jun-05	45	<1	<1	<2	<0.02	<0.01	<0.2
	12-Jun-06	40	4	<1	<2	<0.02	<0.01	<0.2
	20-Aug-07	45	2.7	<1	<2	0.02	<0.01	<0.2
	Representative value		4.5	<1	<2	<0.02	<0.01	<0.2
BC-1D	21-Apr-03	141	24	1	6			<0.2
	26-Apr-04	141	21					0
	2-Nov-04	141	20	1.1	8.1	<0.02	<0.01	<0.2
	27-Jun-05	100	15	1.8	8.3	<0.02	<0.01	<0.2
	12-Jun-06	141	22	2.4	8.9	<0.02	<0.01	<0.2
	20-Aug-07	141	20	2	7.3	<0.02	<0.01	<0.2
	Representative value		20.5	1.8	8.1	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
BC-1S	21-Apr-03	14	<0.02		<0.02			5.6
	26-Apr-04	14						
	1-Nov-04	14	0.02	<0.02	<0.02	<0.02		
	27-Jun-05	14	<0.02	<0.02	<0.02	<0.02		
	12-Jun-06	14	<0.02	<0.02	0.02	<0.02		
	20-Aug-07	14	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	5.6
BC-1i	21-Apr-03	45	<0.02		<0.04			6
	27-Apr-04	45	<0.02	<0.02	0.02	<0.02		
	1-Nov-04	42	0.35	<0.02	0.12	0.04		
	27-Jun-05	45	<0.02	<0.02	<0.02	<0.02		
	12-Jun-06	40	<0.02	<0.02	<0.02	<0.02		
	20-Aug-07	45	0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	6
BC-1D	21-Apr-03	141	<0.02		<0.02			25.4
	26-Apr-04	141			0			
	2-Nov-04	141	<0.02	<0.02	<0.02	<0.02		
	27-Jun-05	100	<0.02	<0.02	<0.02	<0.02		
	12-Jun-06	141	<0.02	<0.02	0.02	<0.02		
	20-Aug-07	141	<0.02	<0.02	0.07	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	25.4

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	Total Organic Carbon mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-1S	21-Apr-03	14	2.3	<5	<5			<1
	26-Apr-04	14						<1
	1-Nov-04	14	1.8	<5	<5	<2	<20	<1
	27-Jun-05	14	1.7	<5	<2		<20	<1
	12-Jun-06	14	<1	<5	<2		33	<1
	20-Aug-07	14	<1		<2		<20	<1
	Representative value		2	<5	<2	<2	<20	<1
BC-1i	21-Apr-03	45	<1	<5	<5			<1
	27-Apr-04	45	<1	<5	<5			<1
	1-Nov-04	42	<1	<5	<5	<2	<20	<1
	27-Jun-05	45	<1	<5	<2		<20	<1
	12-Jun-06	40	<1	<5	<2			<1
	20-Aug-07	45	<1		<2		<20	<1
	Representative value		<1	<5	<3.5	<2	<20	<1
BC-1D	21-Apr-03	141	1.2	17	<5			<1
	26-Apr-04	141						<1
	2-Nov-04	141	1.0	<5	<5	<2	<20	<1
	27-Jun-05	100	<1	20	<2		<20	<1
	12-Jun-06	141	1.0	22	<2			<1
	20-Aug-07	141	1.4		<2		<20	<1
	Representative value		1	20	<2	<2	<20	<1

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-1S	21-Apr-03	14	<0.02	<500	9	<5	100	
	26-Apr-04	14				<5	<50	
	1-Nov-04	14		<400	8	<5	51	
	27-Jun-05	14		<400	10	<5	<50	
	12-Jun-06	14		<400	10	<5	<50	
	20-Aug-07	14		<400	10	<5	<50	
	Representative value			<0.02	<400	10	<5	<50
BC-1i	21-Apr-03	45	<0.02	<500	9	<5	<50	
	27-Apr-04	45		<50	7.7	<5	<50	
	1-Nov-04	42		<400	7	<5	89	
	27-Jun-05	45		<400	9.4	<5	<50	
	12-Jun-06	40		<400	9	<5	<50	
	20-Aug-07	45		<400	8.7	<5	<50	
	Representative value			<0.02	<400	8.85	<5	<50
BC-1D	21-Apr-03	141	<0.02	<500	22	<5	<50	
	26-Apr-04	141				<5	<50	
	2-Nov-04	141		<400	20	<5	<50	
	27-Jun-05	100		<400	25	<5	<50	
	12-Jun-06	141		<400	25	<5	<50	
	20-Aug-07	141		<400	23	<5	<50	
	Representative value			<0.02	<400	23	<5	<50

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-1S	21-Apr-03	14	<10	<10	<2	<25	3	170
	26-Apr-04	14	<10	<10	<2	<25	<2	<50
	1-Nov-04	14	<5	<10	<2	<25	<2	68
	27-Jun-05	14	<5	<10	<2	<25	<2	<50
	12-Jun-06	14	<5	<10	<2	<25	<2	<50
	20-Aug-07	14	<5	11	<1	<10	<2	<50
	Representative value		<5	<10	<2	<25	<2	<50
BC-1i	21-Apr-03	45	<10	<10	<2	<25	<2	<50
	27-Apr-04	45	<10	<10	<2	<25	<2	<50
	1-Nov-04	42	<5	<10	<2	<25	<2	<50
	27-Jun-05	45	<5	<10	<2	<25	<2	<50
	12-Jun-06	40	<5	<10	<2	<25	<2	<50
	20-Aug-07	45	<5	<10	<1	<10	<2	<50
	Representative value		<5	<10	<2	<25	<2	<50
BC-1D	21-Apr-03	141	<10	<10	<2	<25	<2	390
	26-Apr-04	141	<10	<10	<2	<25	<2	540
	2-Nov-04	141	<5	<10	<2	<25	<2	580
	27-Jun-05	100	<5	<10	<2	<25	<2	690
	12-Jun-06	141	<5	<10	<2	<25	<2	820
	20-Aug-07	141	<5	<10	<1	<10	<2	910
	Representative value		<5	<10	<2	<25	<2	635

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-1S	21-Apr-03	14		19	<10	<10	<5	
	26-Apr-04	14		<10	<10	<10	<5	
	1-Nov-04	14		<10	<10	<10	<5	
	27-Jun-05	14	<200	<10	<10	<10	<5	
	12-Jun-06	14	<200	<10	<10	<10	<5	
	20-Aug-07	14	<200	15	<10	<10	<5	
	Representative value		<200	<10	<10	<10	<5	
BC-1i	21-Apr-03	45		<10	<10	<10	<5	
	27-Apr-04	45		<10	<10	<10	<5	
	1-Nov-04	42		<10	<10	<10	<5	
	27-Jun-05	45	<200	<10	<10	<10	<5	
	12-Jun-06	40	<200	<10	<10	<10	<5	
	20-Aug-07	45	<200	<10	<10	<10	<5	
	Representative value		<200	<10	<10	<10	<5	
BC-1D	21-Apr-03	141		20	<10	<10	<5	
	26-Apr-04	141		18	<10	<10	<5	
	2-Nov-04	141		20	<10	<10	<5	
	27-Jun-05	100	<200	21	<10	<10	<5	
	12-Jun-06	141	<200	23	<10	<10	<5	
	20-Aug-07	141	<200	23	<10	<10	<5	
	Representative value		<200	21	<10	<10	<5	

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-1S	21-Apr-03	14	4.2	0.80	0.53	0.26	0.99	9
	26-Apr-04	14	4.1	0.80	0.51	0.22	0.99	
	1-Nov-04	14	4.4	0.81	0.57	0.33	1.20	
	27-Jun-05	14	4.8	0.93	0.61	0.37	1.40	
	12-Jun-06	14	4.4	0.83	0.56	0.34	1.20	
	20-Aug-07	14	4.4	0.89	0.52	0.45	1.40	10
	Representative value			4.3	0.82	0.55	0.34	1.20
BC-1i	21-Apr-03	45	3.9	0.76	0.48	0.24	1.10	9
	27-Apr-04	45	3.8	0.73	0.47	0.21	0.81	7.7
	1-Nov-04	42	4.6	1.00	0.51	0.31	1.10	
	27-Jun-05	45	4.2	0.80	0.53	0.30	1.10	
	12-Jun-06	40	4.4	0.82	0.56	0.30	1.10	
	20-Aug-07	45	4.6	1.00	0.52	0.28	1.20	
	Representative value			4.1	0.81	0.52	0.29	1.10
BC-1D	21-Apr-03	141						
	26-Apr-04	141						
	2-Nov-04	141						
	27-Jun-05	100	24.1	7.50	1.30	0.79	5.30	
	12-Jun-06	141	25.7	8.00	1.40	0.85	5.60	
	20-Aug-07	141	23.4	7.40	1.20	0.80	5.80	
	Representative value			24.1	7.50	1.30	0.80	5.60

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-1S	21-Apr-03	14	100	<10	<10	<2	<25	3
	26-Apr-04	14	<50	<10	<10	<2	<25	<2
	1-Nov-04	14	<50	<5	<10	<2	<25	<2
	27-Jun-05	14	<50	<5	<10	<2	<25	<2
	12-Jun-06	14	<50	<5	<10	<2	<25	<2
	20-Aug-07	14	<50	<5	12	<1	<10	<2
	Representative value		<50	<5	<10	<2	<25	<2
BC-1i	21-Apr-03	45	<50	<10	<10	<2	<25	<2
	27-Apr-04	45	<50	<10	<10	<2	<25	<2
	1-Nov-04	42	<50	<5	<10	<2	<25	<2
	27-Jun-05	45	<50	<5	<10	<2	<25	<2
	12-Jun-06	40	<50	<5	<10	<2	<25	<2
	20-Aug-07	45	<50	<5	<10	<1	<10	<2
	Representative value		<50	<5	<10	<2	<25	<2
BC-1D	21-Apr-03	141						
	26-Apr-04	141						
	2-Nov-04	141						
	27-Jun-05	100	<50	<5	<10	<2	<25	<2
	12-Jun-06	141	<50	<5	<10	<2	<25	<2
	20-Aug-07	141	<50	<5	<10	<1	<10	<2
	Representative value		<50	<5	<10	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-1S	21-Apr-03	14	170		19	<10	<10	<5
	26-Apr-04	14	<50		<10	<10	<10	<5
	1-Nov-04	14	<50		<10	<10	<10	<5
	27-Jun-05	14	<50	<200	<10	<10	<10	<5
	12-Jun-06	14	<50	<200	<10	<10	<10	<5
	20-Aug-07	14	<50	<200	17	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-1i	21-Apr-03	45	<50		<10	<10	<10	<5
	27-Apr-04	45	<50		<10	<10	<10	<5
	1-Nov-04	42	<50		<10	<10	<10	<5
	27-Jun-05	45	<50	<200	<10	<10	<10	<5
	12-Jun-06	40	<50	<200	<10	<10	<10	<5
	20-Aug-07	45	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-1D	21-Apr-03	141						
	26-Apr-04	141						
	2-Nov-04	141						
	27-Jun-05	100	680	<200	21	<10	<10	<5
	12-Jun-06	141	840	<200	23	<10	<10	<5
	20-Aug-07	141	910	<200	23	<10	<10	<5
	Representative value		840	<200	23	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-1S	21-Apr-03	14	<5	27				
	26-Apr-04	14	<5	<10				
	1-Nov-04	14	<5	<10	<1	<1	0	0
	27-Jun-05	14	<5	10				
	12-Jun-06	14	<5	10				
	20-Aug-07	14	<5	<10				
	Representative value			<5	5	<1	<1	0
BC-1i	21-Apr-03	45	<5	<10			0	0
	27-Apr-04	45	<5	<10				
	1-Nov-04	42	<5	37	<1	<1		
	27-Jun-05	45	<5	<10				
	12-Jun-06	40	<5	<10				
	20-Aug-07	45	<5	<10				
	Representative value			<5	<10	<1	<1	0
BC-1D	21-Apr-03	141			<1	<1		
	26-Apr-04	141						
	2-Nov-04	141			<1	<1	0	0
	27-Jun-05	100	<5	130				
	12-Jun-06	141	<5	100				
	20-Aug-07	141	<5	97				
	Representative value			<5	100	<1	<1	0

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-1S	21-Apr-03	14				0	4090	<0.02
	26-Apr-04	14						
	1-Nov-04	14	0	0	0	0		
	27-Jun-05	14						
	12-Jun-06	14						
	20-Aug-07	14						
	Representative value			0	0	0	0	4090
BC-1i	21-Apr-03	45	0	0	0	0	5310	<0.02
	27-Apr-04	45						
	1-Nov-04	42						
	27-Jun-05	45						
	12-Jun-06	40						
	20-Aug-07	45						
	Representative value			0	0	0	0	5310
BC-1D	21-Apr-03	141				0	2730	0.3
	26-Apr-04	141						
	2-Nov-04	141	0	0	0			
	27-Jun-05	100						
	12-Jun-06	141						
	20-Aug-07	141						
	Representative value			0	0	0	0	2730

**Bent Creek Hydrogeologic Research Station
BC-1 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-1S	21-Apr-03	14	0.09	1.1	24	
	26-Apr-04	14				
	1-Nov-04	14				
	27-Jun-05	14				
	12-Jun-06	14				
	20-Aug-07	14				
	Representative value		0.09	1.1	24	
BC-1i	21-Apr-03	45	0.01	1.1	28	
	27-Apr-04	45				
	1-Nov-04	42				
	27-Jun-05	45				
	12-Jun-06	40				
	20-Aug-07	45				
	Representative value		0.01	1.1	28	
BC-1D	21-Apr-03	141	0.38	1.9	17	
	26-Apr-04	141				
	2-Nov-04	141				
	27-Jun-05	100				
	12-Jun-06	141				
	20-Aug-07	141				
	Representative value		0.38	1.9	17	

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-2i	21-Apr-03		5.3	5.0	21	12.4		24
	26-Apr-04	19	5.7	6.2	24	12.4		
	1-Nov-04	29	5.3	7.6	13.8	12.6		24
	29-Jun-05	29	5.3	7.4	11	12.2		37
	12-Jun-06	30	5.8	5.8	24	12.4		18
	20-Aug-07	29	5.8	5.8	17	12.6	510	18
	Representative value		6	6	19	12	510	24
BC-2D	21-Apr-03	245	8.7	0.1	314	14.3		200
	11-Feb-04	245	8.5	0.0	333	15.2		190
	26-Apr-04	150	8.6		278	14.4		
	3-Nov-04	135	8.8	0.3	214	15.1		140
	29-Jun-05	150	8.1	0.1	166	15.3		120
	12-Jun-06	100	8.3	0.1	174	14.2		
	20-Aug-07	150	8.9	0.1	174	14.8	88	112
	Representative value		9	0.1	214	15	88	140

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO₃	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-2i	21-Apr-03		<2.1	9.5	2.00	1.10	0.29	0.9
	26-Apr-04	19	26	6.5	1.30	0.80	0.24	0.6
	1-Nov-04	29	<5	6.0	1.10	0.78	0.36	0.8
	29-Jun-05	29	<2.5	21.2	4.70	2.30	0.45	1.3
	12-Jun-06	30	<2.5	9.3	1.90	1.10	0.35	1.0
	20-Aug-07	29	<6.2	5.2	0.92	0.71	0.33	0.9
	Representative value		<2.5	7.9	1.60	0.95	0.34	0.9
	BC-2D	21-Apr-03	245	6.8	93.4	36.0	0.85	2.20
11-Feb-04		245	4	98.2	38.0	0.80	1.40	19.0
26-Apr-04		150	<2.5	77.5	30.0	0.63	1.30	18.0
3-Nov-04		135	<2.5	54.3	21.0	0.45	1.10	21.0
29-Jun-05		150	<2.5	46.5	18.0	0.38	1.10	21.0
12-Jun-06		100		46.4	18.0	0.36	0.95	20.0
20-Aug-07		150	<6.2	43.9	17.0	0.35	0.97	19.0
Representative value			<2.5	54.3	21.0	0.45	1.10	20.0

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-2i	21-Apr-03		8	1	<5			<0.2
	26-Apr-04	19	6.2					
	1-Nov-04	29	5	<1	<2	<0.02	<0.02	<0.2
	29-Jun-05	29	8.6	1.6	4.4	0.14	0.01	<0.2
	12-Jun-06	30	6	1	2	0.04	<0.01	<0.2
	20-Aug-07	29	1.7	<1	<2	0.04	<0.01	<0.2
	Representative value		6.1	1	<2	0.04	<0.01	<0.2
BC-2D	21-Apr-03	245	32	14	65			<0.2
	11-Feb-04	245	31.2	16	72			
	26-Apr-04	150	39					
	3-Nov-04	135	48	8.8	34	<0.2	<0.01	<0.2
	29-Jun-05	150	51	5.7	18	0.07	<0.01	<0.2
	12-Jun-06	100		6	13	<0.02	<0.01	<0.2
	20-Aug-07	150	63	4	11	<0.02	<0.01	<0.2
	Representative value		43.5	7.4	26	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
BC-2i	21-Apr-03		0.1		<0.04			8.2
	26-Apr-04	19						
	1-Nov-04	29	0.03	<0.02	0.02	<0.02		
	29-Jun-05	29	0.14	<0.02	0.02	<0.02		
	12-Jun-06	30	0.04	<0.02	0.02	<0.02		
	20-Aug-07	29	0.04	<0.02	0.02	<0.02	<0.1	
	Representative value		0.04	<0.02	<0.02	<0.02	<0.1	8.2
BC-2D	21-Apr-03	245	<0.02		<0.02			32
	11-Feb-04	245	<0.02		<0.02			
	26-Apr-04	150						
	3-Nov-04	135	<0.02	<0.02	0.04	<0.02		
	29-Jun-05	150	0.07	<0.02	0.02	<0.02		
	12-Jun-06	100	<0.02	0.04	0.03	<0.02		
	20-Aug-07	150	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	0.015	<0.02	<0.1	32

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	TOC mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-2i	21-Apr-03		<1	<5	<5			<1
	26-Apr-04	19						<1
	1-Nov-04	29	<1	<5	<5	<2	<20	<1
	29-Jun-05	29	<1	<5	<2		<20	<1
	12-Jun-06	30	<1	<5	<2			<1
	20-Aug-07	29	<1		<2		<20	<1
	Representative value		<1	<5	<2	<2	<20	<1
BC-2D	21-Apr-03	245	20.0	<5	<5			<1
	11-Feb-04	245	3.5	<5	<5			<1
	26-Apr-04	150						<1
	3-Nov-04	135	2.0	<5	<5			2
	29-Jun-05	150	<1	<5	<2		<20	<1
	12-Jun-06	100		<5	<2			
	20-Aug-07	150	<1		<2		<20	<1
	Representative value		2	<5	<3.5		<20	<1

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-2i	21-Apr-03		<0.02	<500	7	<5	<50	
	26-Apr-04	19				<5	<50	
	1-Nov-04	29		<400	6	<5	<50	
	29-Jun-05	29		<400	7.3	<5	<50	
	12-Jun-06	30		<400	7	<5	<50	
	20-Aug-07	29		<400	6.8	<5	<50	
	Representative value		<0.02	<400	7	<5	<50	
BC-2D	21-Apr-03	245	<0.02	1.2	16	<5	250	
	11-Feb-04	245		1	22	<5	94	
	26-Apr-04	150				<5	<50	
	3-Nov-04	135		1.3		<5	<50	
	29-Jun-05	150		<400	22	<5	<50	
	12-Jun-06	100		0.9	21	<5	<50	
	20-Aug-07	150		1	22	<5	<50	
	Representative value		<0.02	1	22	<5	<50	

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-2i	21-Apr-03		<10	<10	<2	<25	<2	69
	26-Apr-04	19	<10	<10	<2	<25	<2	<50
	1-Nov-04	29	<5	<10	<2	<25	<2	<50
	29-Jun-05	29	<5	<10	<2	<25	<2	<50
	12-Jun-06	30	<5	<10	<2	<25	<2	<50
	20-Aug-07	29	<5	<10	<1	<10	<2	<50
	Representative value		<5	<10	<2	<25	<2	<50
BC-2D	21-Apr-03	245	<10	<10	<2	<25	2.5	420
	11-Feb-04	245	<10	<10	<2	<25	<2	180
	26-Apr-04	150	<10	<10	<2	<25	<2	<50
	3-Nov-04	135	<5	<10	<2	<25	<2	62
	29-Jun-05	150	<5	<10	<2	<25	<2	<50
	12-Jun-06	100	<5	<10	<2	<25	<2	<50
	20-Aug-07	150	<5	<10	<1	<10	<2	<50
	Representative value		<5	<10	<2	<25	<2	<50

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-2i	21-Apr-03			11	<10	<10	<5	<10
	26-Apr-04	19		<10	<10	<10	<5	<10
	1-Nov-04	29		<10	<10	<10	<5	<10
	29-Jun-05	29	<200	<10	<10	<10	<5	<10
	12-Jun-06	30	<200	<10	<10	<10	<5	<10
	20-Aug-07	29	<200	<10	<10	<10	<5	<10
	Representative value		<200	<10	<10	<10	<5	<10
BC-2D	21-Apr-03	245		<10	<10	<10	<5	910
	11-Feb-04	245		<10	<10	<10	<5	590
	26-Apr-04	150		<10	<10	<10	<5	
	3-Nov-04	135		160	<10	<10	<5	460
	29-Jun-05	150	<200	<10	<10	<10	<5	110
	12-Jun-06	100	<200	<10	<10	<10	<5	49
	20-Aug-07	150	<200	<10	<10	<10	<5	12
	Representative value		<200	<10	<10	<10	<5	285

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-2i	21-Apr-03							
	26-Apr-04	19						
	1-Nov-04	29						
	29-Jun-05	29	10.2	0.46	2.20	0.44	1.50	
	12-Jun-06	30						
	20-Aug-07	29	5.1	0.89	0.70	0.36	0.81	
	Representative value		7.7	0.68	1.45	0.40	1.16	
BC-2D	21-Apr-03	245						
	11-Feb-04	245						
	26-Apr-04	150	77.5	30.0	0.63	1.30	18.0	
	3-Nov-04	135	56.8	22.0	0.46	1.10	22.0	
	29-Jun-05	150	46.5	18.0	0.37	1.10	20.0	
	12-Jun-06	100	46.4	18.0	0.36	0.95	21.0	
	20-Aug-07	150	43.9	17.0	0.35	0.91	19.0	
	Representative value		46.5	18.0	0.37	1.10	20.0	

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-2i	21-Apr-03							
	26-Apr-04	19						
	1-Nov-04	29						
	29-Jun-05	29	55	<5	<10	<2	<25	<2
	12-Jun-06	30						
	20-Aug-07	29	<50	<5	<10	<1	<10	<2
	Representative value		40	<5	<10	<1.5	<18	<2
BC-2D	21-Apr-03	245						
	11-Feb-04	245						
	26-Apr-04	150	<50	<10	<10	<2	<25	<2
	3-Nov-04	135	<50	<5	<10	<2	<25	<2
	29-Jun-05	150	61	<5	<10	<2	<25	<2
	12-Jun-06	100	<50	<5	<10	<2	<25	<2
	20-Aug-07	150	<50	<5	<10	<1	<10	<2
	Representative value		<50	<5	<10	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-2i	21-Apr-03							
	26-Apr-04	19						
	1-Nov-04	29						
	29-Jun-05	29	<50	<200	<10	<10	<10	<5
	12-Jun-06	30						
	20-Aug-07	29	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-2D	21-Apr-03	245						
	11-Feb-04	245						
	26-Apr-04	150	<50		<10	<10	<10	<5
	3-Nov-04	135	<50		<10	<10	<10	<5
	29-Jun-05	150	<50	<200	<10	<10	<10	<5
	12-Jun-06	100	<50	<200	<10	<10	<10	<5
	20-Aug-07	150	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-2i	21-Apr-03						0	0
	26-Apr-04	19						
	1-Nov-04	29			<1	<1		
	29-Jun-05	29	<5	<10				
	12-Jun-06	30						
	20-Aug-07	29	<5	<10				
	Representative value		<5	<10	<1	<1	0	0
BC-2D	21-Apr-03	245			<1			
	11-Feb-04	245			1			
	26-Apr-04	150	<5	15				
	3-Nov-04	135	<5	64				
	29-Jun-05	150	<5	72				
	12-Jun-06	100	<5	22				
	20-Aug-07	150	<5	<10				
	Representative value		<5	43	1			

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-2i	21-Apr-03		0	0	0	0	2910	<0.02
	26-Apr-04	19						
	1-Nov-04	29						
	29-Jun-05	29						
	12-Jun-06	30						
	20-Aug-07	29						
	Representative value			0	0	0	0	2910
BC-2D	21-Apr-03	245				0	130	0.2
	11-Feb-04	245						
	26-Apr-04	150						
	3-Nov-04	135						
	29-Jun-05	150						
	12-Jun-06	100						
	20-Aug-07	150						
	Representative value					0	130	0.2

**Bent Creek Hydrogeologic Research Station
BC-2 Cluster in area of ground water discharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-2i	21-Apr-03		0.04	1.1	30	
	26-Apr-04	19				
	1-Nov-04	29				
	29-Jun-05	29				
	12-Jun-06	30				
	20-Aug-07	29				
	Representative value		0.04	1.1	30	
BC-2D	21-Apr-03	245	0.08	2.9	3	
	11-Feb-04	245				
	26-Apr-04	150				
	3-Nov-04	135				
	29-Jun-05	150				
	12-Jun-06	100				
	20-Aug-07	150				
	Representative value		0.08	2.9	3	

**Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-3S	22-Apr-03		5.1	6.3	12	12.0		24
	27-Apr-04	27	5.8	6.7	15	11.9		18
	2-Nov-04	27	5.4	4.2	18	14.4		24
	27-Jun-05	27	5.1	7.3	14	12.4		25
	13-Jun-06	27	4.4	5.8		12.4		23
	Representative value		5	6	15	12		24
BC-3i	22-Apr-03	49	5.7	7.8	13	12.6		23
	27-Apr-04	30	6.0	7.9	17	12.4		
	2-Nov-04	45	5.8	7.3	19	13.2		26
	27-Jun-05	39	5.2	7.7	16	12.9		24
	13-Jun-06	45	4.6	8.0	18	12.2		24
	Representative value		6	8	17	13		24
BC-3D	22-Apr-03	240	8.5	0.1	135	14.4		340
	27-Apr-04	240	8.3	0.7	137	14.9		
	1-Nov-04	240	8.5	1.0	128	15.0		91
	27-Jun-05	240	8.0	0.1	136	15.1		102
	13-Jun-06	148	7.2	0.2	150	14.6		98
	Representative value		8	0.2	136	15		100

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-3S	22-Apr-03		75	5	0.8	0.9	0.8	1.5
	27-Apr-04	27		4	0.6	0.6	0.5	1.0
	2-Nov-04	27	<5	4	0.7	0.6	0.7	1.4
	27-Jun-05	27	2.8	6	1.3	0.7	0.6	1.4
	13-Jun-06	27	3	5	0.8	0.7	0.7	1.4
	Representative value		3	5	0.8	0.7	0.7	1.4
BC-3i	22-Apr-03	49	13	7	1.6	0.8	1.0	1.2
	27-Apr-04	30		5	1.0	0.6	0.6	0.9
	2-Nov-04	45	<2.5	5	1.0	0.6	0.8	1.2
	27-Jun-05	39	<2.5	6	1.2	0.6	0.8	1.4
	13-Jun-06	45	<2.5	5	1.1	0.7	0.8	1.3
	Representative value		<2.5	5	1.1	0.6	0.8	1.2
BC-3D	22-Apr-03	240	12	51	18.0	1.5	5.3	6.0
	27-Apr-04	240	0	51	18.0	1.5	3.0	3.9
	1-Nov-04	240	<2.5	59	21.0	1.6	2.3	2.9
	27-Jun-05	240	<5					
	13-Jun-06	148	<2.5	67	24.0	1.8	2.5	3.4
	Representative value		<3.5	55	19.5	1.6	2.8	3.7

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-3S	22-Apr-03		5	<5	<5			<0.2
	27-Apr-04	27		<5	<2	<0.02	<0.01	<0.2
	2-Nov-04	27	6	<1	<2	<0.02	<0.01	<0.2
	27-Jun-05	27	1.5	<1	<2	<0.02	<0.01	<0.2
	13-Jun-06	27	5.5	<1	<2	<0.02	<0.01	<0.2
	Representative value		5.25	<1	<2	<0.02	<0.01	<0.2
BC-3i	22-Apr-03	49	7	<5	<5			<0.2
	27-Apr-04	30						
	2-Nov-04	45	7	<1	<2	0.06	<0.01	<0.2
	27-Jun-05	39	2	<1	<2	<0.02	<0.01	<0.2
	13-Jun-06	45	5.5	<1	<2	0.05	<0.01	<0.2
	Representative value		6.25	<1	<2	0.055	<0.01	<0.2
BC-3D	22-Apr-03	240		<5	10			<0.2
	27-Apr-04	240						0
	1-Nov-04	240	58	<1	7.8	<0.02	<0.01	<0.2
	27-Jun-05	240	29	1.4	13	0.04	<0.01	<0.2
	13-Jun-06	148	57	1.2	11	<0.02	<0.01	<0.2
	Representative value		57	0.75	10.5	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
BC-3S	22-Apr-03		<0.02		0.07			5.4
	27-Apr-04	27	<0.02	<0.02	0.12			
	2-Nov-04	27	<0.02	<0.02	<0.02	<0.02		
	27-Jun-05	27	<0.02	0.03	0.02	0.1		
	13-Jun-06	27	<0.02	<0.02	0.02	0.2		
	Representative value		<0.02	<0.02	0.045	0.15		5.4
BC-3i	22-Apr-03	49	0.05		0.06			7.4
	27-Apr-04	30						
	2-Nov-04	45	0.06	<0.02	0.02	<0.02		
	27-Jun-05	39	<0.02	0.02	0.02	<0.02		
	13-Jun-06	45	0.05	<0.02	0.02	<0.02		
	Representative value		0.05	<0.02	0.02	<0.02		7.4
BC-3D	22-Apr-03	240	<0.02		<0.02			53.4
	27-Apr-04	240						
	1-Nov-04	240	<0.02	<0.02	<0.02	<0.02		
	27-Jun-05	240	0.04	<0.02	0.04	<0.02		
	13-Jun-06	148	<0.02	<0.02	0.02	<0.02		
	Representative value		<0.02	<0.02	0.015	<0.02		53.4

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	TOC mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO ₃
BC-3S	22-Apr-03		50.0	<5	<5			<1
	27-Apr-04	27	12.0	<5	<5			<1
	2-Nov-04	27	1.8	<5	<5	<2	<20	<1
	27-Jun-05	27	<2	<5	<2		<20	<1
	13-Jun-06	27	2.0	<5				<1
	Representative value		7	<5	<5	<2	<20	<1
BC-3i	22-Apr-03	49	13.0	<5	<5			<1
	27-Apr-04	30						<1
	2-Nov-04	45	<1	<5	<5	<2	<20	<1
	27-Jun-05	39	<1	<5	<2		<20	<1
	13-Jun-06	45	<1	<5	<2			<1
	Representative value		<1	<5	<3.5	<2	<20	<1
BC-3D	22-Apr-03	240	19.0	<5	<5			<1
	27-Apr-04	240						<1
	1-Nov-04	240	4.4	9	<5	<2	<20	<1
	27-Jun-05	240	1.8	<5	<2		<20	<1
	13-Jun-06	148	7.6	21	<2			<1
	Representative value		6	6	<3.5	<2	<20	<1

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-3S	22-Apr-03			<500	10	<5	1300	
	27-Apr-04	27		<50	8.6	<5	380	
	2-Nov-04	27		<400	9	<5	<50	
	27-Jun-05	27		<400	11	<5	200	
	13-Jun-06	27		<400	10	<5	71	
	Representative value			<400	10	<5	290	
BC-3i	22-Apr-03	49	<0.02	<500	9	<5	470	
	27-Apr-04	30				<5	<50	
	2-Nov-04	45		<400	8	<5	<50	
	27-Jun-05	39		<400	9.3	<5	63	
	13-Jun-06	45		<400	10	<5	<50	
	Representative value		<0.02	<400	9.15	<5	<50	
BC-3D	22-Apr-03	240	<0.02	<500	17	<5	180	
	27-Apr-04	240				<5	<50	
	1-Nov-04	240		<400	14	<5	<50	
	27-Jun-05	240		<400				
	13-Jun-06	148		<400	17	<5	<50	
	Representative value		<0.02	<400	17	<5	<50	

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-3S	22-Apr-03		<10	21	<2	<25	2.3	2300
	27-Apr-04	27	<10	12	<2	<25	<2	800
	2-Nov-04	27	<5	<10	<2	<25	<2	<50
	27-Jun-05	27	<5	11	<2	<25	<2	<50
	13-Jun-06	27	<5	12	<2	<25	<2	140
	Representative value		<5	12	<2	<25	2	800
BC-3i	22-Apr-03	49	<10	16	<2	<25	<2	540
	27-Apr-04	30	<10	<10	<2	<25	<2	<50
	2-Nov-04	45	<5	<10	<2	<25	<2	<50
	27-Jun-05	39	<5	10	<2	<25	<2	<50
	13-Jun-06	45	<5	13	<2	<25	<2	<50
	Representative value		<5	13	<2	<25	<2	540
BC-3D	22-Apr-03	240	<10	29	<2	<25	<2	350
	27-Apr-04	240	<10	<10	<2	<25	<2	85
	1-Nov-04	240	<5	<10	<2	<25	<2	730
	27-Jun-05	240						
	13-Jun-06	148	<5	13	<2	<25	<2	990
	Representative value		<7.5	9	<2	<25	<2	540

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-3S	22-Apr-03			39	<10	<10	<5	13
	27-Apr-04	27		20	<10	<10	<5	<10
	2-Nov-04	27		13	<10	<10	<5	<10
	27-Jun-05	27	<200	11	<10	<10	<5	<10
	13-Jun-06	27	<200	<10	<10	<10	<5	<10
	Representative value		<200	17	<10	<10	<5	13
BC-3i	22-Apr-03	49		16	<10	<10	<5	<10
	27-Apr-04	30		<10	<10	<10	<5	<10
	2-Nov-04	45		<10	<10	<10	<5	210
	27-Jun-05	39	<200	<10	<10	<10	<5	<10
	13-Jun-06	45	<200	<10	<10	<10	<5	60
	Representative value		<200	<10	<10	<10	<5	<10
BC-3D	22-Apr-03	240		34	<10	<10	<5	3800
	27-Apr-04	240		95	<10	<10	<5	290
	1-Nov-04	240		210	<10	<10	<5	190
	27-Jun-05	240						
	13-Jun-06	148	<200	230	<10	<10	<5	110
	Representative value		<200	153	<10	<10	<5	240

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-3S	22-Apr-03							<20
	27-Apr-04	27	4.0	0.8	0.5	0.44	1.10	
	2-Nov-04	27						
	27-Jun-05	27	5.1	1.0	0.7	0.62	1.50	
	13-Jun-06	27	4.6	0.8	0.7	0.63	1.40	
	Representative value		4.6	0.8	0.7	0.62	1.40	<20
BC-3i	22-Apr-03	49						
	27-Apr-04	30						
	2-Nov-04	45						
	27-Jun-05	39	5.6	1.2	0.6	0.77	1.40	
	13-Jun-06	45	5.1	1.0	0.6	0.73	1.20	
	Representative value		5.4	1.1	0.6	0.75	1.30	
BC-3D	22-Apr-03	240						
	27-Apr-04	240						
	1-Nov-04	240	59.0	21.0	1.6	2.30	2.80	
	27-Jun-05	240	66.9	24.0	1.7	3.20	4.30	
	13-Jun-06	148	64.4	23.0	1.7	2.50	3.20	
	Representative value		64.4	23.0	1.7	2.50	3.20	

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-3S	22-Apr-03							
	27-Apr-04	27	<50	<10	<10	<2	<25	<2
	2-Nov-04	27						
	27-Jun-05	27	<50	<5	11	<2	<25	<2
	13-Jun-06	27	<50	<5	11	<2	<25	<2
	Representative value		<50	<5	11	<2	<25	<2
BC-3i	22-Apr-03	49						
	27-Apr-04	30						
	2-Nov-04	45						
	27-Jun-05	39	<50	<5	12	<2	<25	<2
	13-Jun-06	45	<50	<5	11	<2	<25	<2
	Representative value		<50	<5	12	<2	<25	<2
BC-3D	22-Apr-03	240						
	27-Apr-04	240						
	1-Nov-04	240	<50	<5	<10	<2	<25	<2
	27-Jun-05	240	<50	<5	<10	<2	<25	<2
	13-Jun-06	148	<50	<5	10	<2	<25	<2
	Representative value		<50	<5	<10	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-3S	22-Apr-03							
	27-Apr-04	27	<50		11	<10	<10	<5
	2-Nov-04	27						
	27-Jun-05	27	<50	<200	10	<10	<10	<5
	13-Jun-06	27	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	11	<10	<10	<5
BC-3i	22-Apr-03	49						
	27-Apr-04	30						
	2-Nov-04	45						
	27-Jun-05	39	<50	<200	<10	<10	<10	<5
	13-Jun-06	45	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-3D	22-Apr-03	240						
	27-Apr-04	240						
	1-Nov-04	240	390		200	<10	<10	<5
	27-Jun-05	240	230	<200	130	<10	<10	<5
	13-Jun-06	148	920	<200	230	<10	<10	<5
	Representative value		390	<200	200	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-3S	22-Apr-03							
	27-Apr-04	27	<5	18				
	2-Nov-04	27			<1	1		
	27-Jun-05	27	<5	<10				
	13-Jun-06	27	<5	<10				
	Representative value		<5	18	<1	1		
BC-3i	22-Apr-03	49					2	0
	27-Apr-04	30						
	2-Nov-04	45			<1	<1		
	27-Jun-05	39	<5	<10				
	13-Jun-06	45	<5	<10				
	Representative value		<5	<10	<1	<1	2	0
BC-3D	22-Apr-03	240			<1	<1		
	27-Apr-04	240						
	1-Nov-04	240	<5	460	<1	<1		
	27-Jun-05	240	<5	97				
	13-Jun-06	148	<5	66				
	Representative value		<5	97	<1	<1		

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-3S	22-Apr-03					0	900	<0.02
	27-Apr-04	27						
	2-Nov-04	27						
	27-Jun-05	27						
	13-Jun-06	27						
	Representative value					0	900	<0.02
BC-3i	22-Apr-03	49	0	0	0	0	2360	0.03
	27-Apr-04	30						
	2-Nov-04	45						
	27-Jun-05	39						
	13-Jun-06	45						
	Representative value		0	0	0	0	2360	0.03
BC-3D	22-Apr-03	240				0	200	0.1
	27-Apr-04	240						
	1-Nov-04	240						
	27-Jun-05	240						
	13-Jun-06	148						
	Representative value					0	200	0.1

**Bent Creek Hydrogeologic Research Station
BC-3 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L
BC-3S	22-Apr-03		0.03	0.6	24
	27-Apr-04	27			
	2-Nov-04	27			
	27-Jun-05	27			
	13-Jun-06	27			
	Representative value		0.03	0.6	24
BC-3i	22-Apr-03	49	0.05	1.1	26
	27-Apr-04	30			
	2-Nov-04	45			
	27-Jun-05	39			
	13-Jun-06	45			
	Representative value		0.05	1.1	26
BC-3D	22-Apr-03	240	0.03	7.5	25
	27-Apr-04	240			
	1-Nov-04	240			
	27-Jun-05	240			
	13-Jun-06	148			
	Representative value		0.03	7.5	25

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-4S	22-Apr-03		4.8	7.5	8	11.6		<10
	27-Apr-04		5.1	7.9	11	11.5		
	2-Nov-04	17	5.5	9.0	13	15.6		<10
	27-Jun-05	17	5.5	8.4	14	12.3		19
	13-Jun-06	17	5.8	7.8	14	12.1		15
	21-Aug-07	19	6.1	12.0	15	14.1	218	12
	Representative value			6	8	14	12	218
BC-4i	22-Apr-03		5.5	9.0	6	13.2		16
	27-Apr-04		5.2	8.6	12	12.5		
	2-Nov-04	36	5.7	5.4	14	13.3		19
	27-Jun-05		5.6	9.1	11	12.8		14
	13-Jun-06	36	6.0	9.9	15	12.6		
	21-Aug-07	37	4.2	8.9	16	12.8	210	16
	Representative value			6	9	13	13	210
BC-4D	22-Apr-03	112	8.3	0.1	127	13.5		86
	27-Apr-04	112	7.8	0.1	101	13.3		
	2-Nov-04	115	8.2	0.2	128	14.2		85
	27-Jun-05	115	7.7	0.1	104	14.6	170	82
	13-Jun-06	115	7.9	0.2	119	13.3		80
	21-Aug-07	105	7.8	0.2	125	12.8		82
	Representative value			8	0.1	122	13	170

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-4S	22-Apr-03		63	6.2	0.50	1.20	1.00	0.68
	27-Apr-04			2.9	0.48	0.42	0.43	0.53
	2-Nov-04	17	5	3.2	0.53	0.45	0.74	0.85
	27-Jun-05	17	<2.5	3.6	0.61	0.51	0.66	0.84
	13-Jun-06	17	<2.5	3.6	0.61	0.51	0.66	0.84
	21-Aug-07	19	<6.2	3.4	0.62	0.46	0.68	0.80
	Representative value			<6.2	3.4	0.57	0.49	0.67
BC-4i	22-Apr-03		<2.5	3.9	0.79	0.46	0.62	0.87
	27-Apr-04			3.4	0.67	0.41	0.57	0.70
	2-Nov-04	36	<2.5	3.6	0.70	0.44	0.76	0.89
	27-Jun-05		<2.5	3.9	0.78	0.48	0.78	1.00
	13-Jun-06	36	<2.5	4.1	0.82	0.49	0.80	0.95
	21-Aug-07	37	<6.2	3.7	0.76	0.44	0.71	0.87
	Representative value			<2.5	3.8	0.77	0.45	0.74
BC-4D	22-Apr-03	112	<2.2	50.3	18.00	1.30	4.40	3.90
	27-Apr-04	112		47.0	17.00	1.10	3.30	3.30
	2-Nov-04	115	<2.5	49.5	18.00	1.10	3.80	3.50
	27-Jun-05	115	<2.5	49.5	18.00	1.10	3.70	3.80
	13-Jun-06	115	<2.5	49.5	18.00	1.10	3.60	3.70
	21-Aug-07	105	<6.2	49.5	18.00	1.10	3.80	3.40
	Representative value			<2.5	49.5	18.00	1.10	3.75

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-4S	22-Apr-03		4	<5	<5			<0.2
	27-Apr-04							
	2-Nov-04	17	5	<1	<2	2.7	<0.01	<0.2
	27-Jun-05	17	<1	<1	<2	<0.02	<0.01	<0.2
	13-Jun-06	17	4	<1	<2	<0.02	<0.01	<0.2
	21-Aug-07	19	3.7	<1	<2	<0.02	<0.01	<0.2
	Representative value		4	<1	<2	<0.02	<0.01	<0.2
BC-4i	22-Apr-03		4	<5	<5			<0.2
	27-Apr-04							
	2-Nov-04	36	6	<1	<2	<0.02	<0.01	<0.2
	27-Jun-05		<1	<1	<2	0.06	<0.01	<0.2
	13-Jun-06	36	4.5	<1	<2	<0.02	<0.01	<0.2
	21-Aug-07	37	3.7	<1	<2	<0.02	<0.01	<0.2
	Representative value		4.25	<1	<2	<0.02	<0.01	<0.2
BC-4D	22-Apr-03	112	48	<5	12			<0.2
	27-Apr-04	112						
	2-Nov-04	115	46	<1	12	<0.2	<0.01	<0.2
	27-Jun-05	115	41	<1	10	<0.02	<0.01	<0.2
	13-Jun-06	115	45	<1	9.3	<0.02	<0.01	<0.2
	21-Aug-07	105	46	<1	10	<0.02	<0.01	<0.2
	Representative value		46	<1	10	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO ₂ +NO ₃ as N mg/L as N	Ammonia as N mg/L as NH ₃	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO ₄	Sulfide mg/L as H ₂ S	ANC, TIT. 4.5, L mg/L as CaCO ₃
BC-4S	22-Apr-03		<0.02		0.14			3.8
	27-Apr-04							
	2-Nov-04	17	2.7	<0.02	<0.02	<0.02		
	27-Jun-05	17	<0.02	<0.02	<0.02	<0.02		
	13-Jun-06	17	<0.02	<0.02	0.02			
	21-Aug-07	19	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	3.8
BC-4i	22-Apr-03		<0.02		<0.02			4.4
	27-Apr-04							
	2-Nov-04	36	<0.02	<0.02	<0.02	<0.02		
	27-Jun-05		0.06	<0.02	<0.02	<0.02		
	13-Jun-06	36	<0.02	<0.02	0.02	<0.02		
	21-Aug-07	37	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	4.4
BC-4D	22-Apr-03	112	<0.02		<0.02			45.8
	27-Apr-04	112						
	2-Nov-04	115	<0.02	<0.02	<0.02	<0.02		
	27-Jun-05	115	<0.02	<0.02	0.03	<0.02		
	13-Jun-06	115	<0.02	0.24	0.02	<0.02		
	21-Aug-07	105	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	0.24	0.025	<0.02	<0.1	45.8

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	TOC mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-4S	22-Apr-03		50.0	<5	<5			<1
	27-Apr-04							<1
	2-Nov-04	17	10.0	<5	<5	<2	<20	<1
	27-Jun-05	17	<1	<5	<2		<20	<1
	13-Jun-06	17	1.7		<2			<1
	21-Aug-07	19	2.0		<2		<20	<1
	Representative value		6	<5	<2	<2	<20	<1
BC-4i	22-Apr-03		<1	<5	<5			<1
	27-Apr-04							<1
	2-Nov-04	36	<1	<5	<5	<2	<20	<1
	27-Jun-05		<1	<5	<2		<20	<1
	13-Jun-06	36	<1	<5	<2			<1
	21-Aug-07	37	<1		<2		<20	<1
	Representative value		<1	<5	<2	<2	<20	<1
BC-4D	22-Apr-03	112	3.6	<5	<5			<1
	27-Apr-04	112						<1
	2-Nov-04	115	<1	<5	<5	<2	<20	<1
	27-Jun-05	115	<1	<5	<2		<20	<1
	13-Jun-06	115	<1	<5	<2			<1
	21-Aug-07	105	<1		<2		<20	<1
	Representative value		<1	<5	<2	<2	<20	<1

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-4S	22-Apr-03		<0.02	<500	7	<5	3900	
	27-Apr-04					<5	<50	
	2-Nov-04	17		<400	6	<5	84	
	27-Jun-05	17		<400	7.5	<5	<50	
	13-Jun-06	17		<400	7	<5	85	
	21-Aug-07	19		<400	6.9	<5	110	
	Representative value			<0.02	<400	7	<5	98
BC-4i	22-Apr-03			<500	7	<5	57	
	27-Apr-04					<5	<50	
	2-Nov-04	36		<400	6	<5	<50	
	27-Jun-05			<400	8.3	<5	<50	
	13-Jun-06	36		<400	8	<5	<50	
	21-Aug-07	37		<400	7.6	<5	<50	
	Representative value			<400	7.6	<5	57	
BC-4D	22-Apr-03	112	<0.02	<500	12	<5	62	
	27-Apr-04	112				<5	<50	
	2-Nov-04	115		<400		<5	<50	
	27-Jun-05	115		<400	15	<5	<50	
	13-Jun-06	115		<400	15	<5	<50	
	21-Aug-07	105		<400	13	<5	<50	
	Representative value			<0.02	<400	14	<5	<50

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-4S	22-Apr-03		<10	69	<2	<25	8.1	5400
	27-Apr-04		<10	12	<2	<25	<2	<50
	2-Nov-04	17	<5	14	<2	<25	<2	96
	27-Jun-05	17	<5	14	<2	<25	<2	<50
	13-Jun-06	17	<5	16	<2	<25	<2	91
	21-Aug-07	19	<5	14	<1	<10	<2	110
	Representative value		<5	14	<2	<25	8	103
BC-4i	22-Apr-03		<10	14	<2	<25	<2	<50
	27-Apr-04		<10	12	<2	<25	<2	<50
	2-Nov-04	36	<5	12	<2	<25	<2	<50
	27-Jun-05		<5	13	<2	<25	<2	<50
	13-Jun-06	36	<5	15	<2	<25	<2	<50
	21-Aug-07	37	<5	13	<1	<10	<2	<50
	Representative value		<5	13	<2	<25	<2	<50
BC-4D	22-Apr-03	112	<10	13	<2	<25	<2	210
	27-Apr-04	112	<10	11	<2	<25	<2	<50
	2-Nov-04	115	<5	12	<2	<25	<2	<50
	27-Jun-05	115	<5	12	<2	<25	<2	<50
	13-Jun-06	115	<5	12	<2	<25	<2	<50
	21-Aug-07	105	<5	16	<1	<10	<2	<50
	Representative value		<5	12	<2	<25	<2	<50

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-4S	22-Apr-03			450	<10	<10	<5	29
	27-Apr-04			<10	<10	<10	<5	<10
	2-Nov-04	17		14	<10	<10	<5	<10
	27-Jun-05	17	<200	<10	<10	<10	<5	<10
	13-Jun-06	17	<200	14	<10	<10	<5	<10
	21-Aug-07	19	<200	11	<10	<10	<5	<10
	Representative value		<200	14	<10	<10	<5	<10
BC-4i	22-Apr-03			<10	<10	<10	<5	<10
	27-Apr-04			<10	<10	<10	<5	<10
	2-Nov-04	36		<10	<10	<10	<5	22
	27-Jun-05		<200	<10	<10	<10	<5	<10
	13-Jun-06	36	<200	<10	<10	<10	<5	<10
	21-Aug-07	37	<200	<10	<10	<10	<5	<10
	Representative value		<200	<10	<10	<10	<5	<10
BC-4D	22-Apr-03	112		45	<10	<10	<5	440
	27-Apr-04	112		25	<10	<10	<5	46
	2-Nov-04	115		25	<10	<10	<5	120
	27-Jun-05	115	<200	31	<10	<10	<5	140
	13-Jun-06	115	<200	21	<10	<10	<5	150
	21-Aug-07	105	<200	20	<10	<10	<5	230
	Representative value		<200	25	<10	<10	<5	145

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO ₃	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered ug/L as K	Sodium - Filtered ug/L as Na	Silica - Filtered mg/L as SiO ₂
BC-4S	22-Apr-03							
	27-Apr-04							
	2-Nov-04	17						
	27-Jun-05	17	3.6	0.61	0.51	0.69	0.84	
	13-Jun-06	17						
	21-Aug-07	19	3.3	0.57	0.45	0.65	0.77	
	Representative value		3.4	0.59	0.48	0.67	0.81	
BC-4i	22-Apr-03							
	27-Apr-04		3.4	0.67	0.41	0.57	0.70	
	2-Nov-04	36	3.6	0.71	0.45	0.76	0.85	
	27-Jun-05		3.9	0.78	0.47	0.78	0.96	
	13-Jun-06	36	4.2	0.85	0.50	0.83	0.95	
	21-Aug-07	37	3.7	0.73	0.45	0.75	0.87	
	Representative value		3.7	0.73	0.45	0.76	0.87	
BC-4D	22-Apr-03	112						
	27-Apr-04	112						
	2-Nov-04	115						
	27-Jun-05	115	47.0	17.0	1.10	3.70	3.70	
	13-Jun-06	115	49.5	18.0	1.10	3.60	3.70	
	21-Aug-07	105	52.0	19.0	1.10	3.90	3.40	
	Representative value		49.5	18.0	1.10	3.70	3.70	

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-4S	22-Apr-03							
	27-Apr-04							
	2-Nov-04	17						
	27-Jun-05	17	<50	<5	14	<2	<25	<2
	13-Jun-06	17						
	21-Aug-07	19	<50	<5	13	<1	<10	<2
	Representative value		<50	<5	14	<1.5	<17.5	<2
BC-4i	22-Apr-03							
	27-Apr-04		<50	<10	12	<2	<25	<2
	2-Nov-04	36	<50	<5	12	<2	<25	<2
	27-Jun-05		<50	<5	13	<2	<25	<2
	13-Jun-06	36	<50	<5	15	<2	<25	<2
	21-Aug-07	37	<50	<5	13	<1	<10	<2
	Representative value		<50	<5	13	<2	<25	<2
BC-4D	22-Apr-03	112						
	27-Apr-04	112						
	2-Nov-04	115						
	27-Jun-05	115	<50	<5	12	<2	<25	<2
	13-Jun-06	115	<50	<5	14	<2	<25	<2
	21-Aug-07	105	<50	<5	17	<1	<10	<2
	Representative value		<50	<5	14	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-4S	22-Apr-03							
	27-Apr-04							
	2-Nov-04	17						
	27-Jun-05	17	<50	<200	<10	<10	<10	<5
	13-Jun-06	17						
	21-Aug-07	19	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-4i	22-Apr-03							
	27-Apr-04		<50		<10	<10	<10	<5
	2-Nov-04	36	<50		<10	<10	<10	<5
	27-Jun-05		<50	<200	<10	<10	<10	<5
	13-Jun-06	36	<50	<200	<10	<10	<10	<5
	21-Aug-07	37	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-4D	22-Apr-03	112						
	27-Apr-04	112						
	2-Nov-04	115						
	27-Jun-05	115	<50	<200	31	<10	<10	<5
	13-Jun-06	115	<50	<200	21	<10	<10	<5
	21-Aug-07	105	<50	<200	20	<10	<10	<5
	Representative value		<50	<200	21	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-4S	22-Apr-03							
	27-Apr-04							
	2-Nov-04	17			<1	<1	0	0
	27-Jun-05	17	<5	<10				
	13-Jun-06	17						
	21-Aug-07	19	<5	<10				
	Representative value		<5	<10	<1	<1	0	0
BC-4i	22-Apr-03						0	0
	27-Apr-04		<5	<10				
	2-Nov-04	36	<5	<10	<1	<1		
	27-Jun-05		<5	<10				
	13-Jun-06	36	<5	<10				
	21-Aug-07	37	<5	<10				
	Representative value		<5	<10	<1	<1	0	0
BC-4D	22-Apr-03	112			<1	<1		
	27-Apr-04	112						
	2-Nov-04	115			<1	2	0	0
	27-Jun-05	115	<5	130				
	13-Jun-06	115	<5	140				
	21-Aug-07	105	<5	210				
	Representative value		<5	140	<1	1.3	0	0

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-4S	22-Apr-03					0	1650	<0.02
	27-Apr-04							
	2-Nov-04	17	0	0	0			
	27-Jun-05	17						
	13-Jun-06	17						
	21-Aug-07	19						
	Representative value			0	0	0	0	1650
BC-4i	22-Apr-03		0	1	0	0	1260	<0.02
	27-Apr-04							
	2-Nov-04	36						
	27-Jun-05							
	13-Jun-06	36						
	21-Aug-07	37						
	Representative value			0	1	0	0	1260
BC-4D	22-Apr-03	112				0	1300	5
	27-Apr-04	112						
	2-Nov-04	115	0	0	0			
	27-Jun-05	115						
	13-Jun-06	115						
	21-Aug-07	105						
	Representative value			0	0	0	0	1300

**Bent Creek Hydrogeologic Research Station
BC-4 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-4S	22-Apr-03		0.06	1.2	29	
	27-Apr-04					
	2-Nov-04	17				
	27-Jun-05	17				
	13-Jun-06	17				
	21-Aug-07	19				
	Representative value		0.06	1.2	29	
BC-4i	22-Apr-03		0.02	0.7	31	
	27-Apr-04					
	2-Nov-04	36				
	27-Jun-05					
	13-Jun-06	36				
	21-Aug-07	37				
	Representative value		0.02	0.7	31	
BC-4D	22-Apr-03	112	0.04	10.2	32	
	27-Apr-04	112				
	2-Nov-04	115				
	27-Jun-05	115				
	13-Jun-06	115				
	21-Aug-07	105				
	Representative value		0.04	10.2	32	

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-5S	23-Apr-03		6.7	3.8	20	10.7		18
	28-Apr-04		5.4	3.6	24	10.1		
	2-Nov-04	19	5.3	1.4	24	15.4		27
	28-Jun-05	18	5.4	2.1	24	13.2	202	22
	14-Jun-06	19	5.8	3.4	22	12.2		22
	Representative value			5	3	24	12	202
BC-5i	23-Apr-03		5.0	4.6	16	12.6		<10
	28-Apr-04		5.1	5.4	20	12.6		
	2-Nov-04	35	5.5	5.8	18	15.5		26
	28-Jun-05	35	5.6	6.1	20	13.2	243	15
	14-Jun-06	35	5.9	5.8	18	13.0		26
	Representative value			6	6	18	13	243
BC-5D	23-Apr-03	85	6.6	2.4	15	14.1		47
	28-Apr-04	85	5.7	4.4	46	14.6		
	3-Nov-04	85	6.7	2.1	65	14.7		41
	28-Jun-05	85	6.2	4.2	50	14.5		46
	14-Jun-06	85	5.9	3.5	53	14.4		40
	Representative value			6	4	50	15	

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO ₃	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-5S	23-Apr-03		<2.1	7.8	1.30	1.10	1.10	1.60
	28-Apr-04			5.3	0.92	0.72	0.57	1.20
	2-Nov-04	19	<2.5	6.0	1.10	0.78	0.98	2.00
	28-Jun-05	18	<2.5	5.4	0.99	0.70	0.83	1.70
	14-Jun-06	19	<2.5	5.9	1.20	0.70	0.77	1.80
	Representative value		<2.5	5.7	1.10	0.72	0.83	1.70
BC-5i	23-Apr-03		<2.1	4.4	0.87	0.54	0.59	1.80
	28-Apr-04			3.5	0.66	0.46	0.44	1.50
	2-Nov-04	35	<2.5	4.1	0.73	0.56	0.61	1.80
	28-Jun-05	35	<2.5	4.5	0.80	0.60	0.62	1.90
	14-Jun-06	35	<2.5	4.5	0.84	0.59	0.57	1.90
	Representative value		<2.5	4.3	0.80	0.56	0.59	1.80
BC-5D	23-Apr-03	85	2.3	25.9	7.90	1.50	3.00	2.90
	28-Apr-04	85		13.0	3.40	1.10	1.50	2.20
	3-Nov-04	85	3	14.7	3.90	1.20	1.70	2.70
	28-Jun-05	85	<2.5	17.7	4.60	1.50	1.70	3.00
	14-Jun-06	85	<2.5	15.8	4.00	1.40	1.80	2.90
	Representative value		<2.5	15.8	4.00	1.40	1.70	2.90

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-5S	23-Apr-03		7	<5	<5			<0.2
	28-Apr-04							
	2-Nov-04	19	8	1	<2	0.09	<0.01	<0.2
	28-Jun-05	18	<1	1	<2	0.07	<0.01	<0.2
	14-Jun-06	19	4	<1	<2	0.23	<0.01	<0.2
	Representative value		7	0.75	<2	0.09	<0.01	<0.2
BC-5i	23-Apr-03		7	<5	<5			<0.2
	28-Apr-04							
	2-Nov-04	35	8	<1	<2	<0.02	<0.01	<0.2
	28-Jun-05	35	3	<1	<2	<0.02	0.2	<0.2
	14-Jun-06	35	6	<1	<2	<0.02	<0.01	<0.2
	Representative value		6.5	<1	<2	<0.02	0.2	<0.2
BC-5D	23-Apr-03	85	33	<5	<5			<0.2
	28-Apr-04	85						
	3-Nov-04	85	22	<1	<2	<0.2	<0.01	<0.2
	28-Jun-05	85	19	<1	2.6	<0.2	<0.01	<0.2
	14-Jun-06	85	22	<1	2.8	0.03	<0.01	<0.2
	Representative value		22	<1	2.55	<0.2	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
BC-5S	23-Apr-03		0.25		<0.02			8.2
	28-Apr-04							
	2-Nov-04	19	0.09	<0.02	<0.02	<0.02		
	28-Jun-05	18	0.07	<0.02	<0.02	<0.02		
	14-Jun-06	19	0.23	<0.02	0.27	<0.02		
	Representative value		0.16	<0.02	0.27	<0.02		8.2
BC-5i	23-Apr-03		<0.02		<0.02			7.6
	28-Apr-04							
	2-Nov-04	35	<0.02	<0.02	<0.02	<0.02		
	28-Jun-05	35	<0.02	<0.02	<0.02	<0.02		
	14-Jun-06	35	<0.02	<0.02	0.02	<0.02		
	Representative value		<0.02	<0.02	<0.02	<0.02		7.6
BC-5D	23-Apr-03	85	<0.02		<0.02			33.8
	28-Apr-04	85						
	3-Nov-04	85	<0.02	0.02	0.02	<0.02		
	28-Jun-05	85	<0.2	<0.02	0.02	<0.02		
	14-Jun-06	85	0.03	<0.02	0.04	<0.02		
	Representative value		<0.11	<0.02	0.02	<0.02		33.8

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	Total Organic Carbon mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-5S	23-Apr-03		3.2	<5	<5			<1
	28-Apr-04							<1
	2-Nov-04	19	<1	<5	<5	<2	<20	<1
	28-Jun-05	18	2.2	<5	<2		<20	<1
	14-Jun-06	19	<1	<5	<2			<1
	Representative value		2	<5	<3.5	<2	<20	<1
BC-5i	23-Apr-03		<1	<5	<5			<1
	28-Apr-04							<1
	2-Nov-04	35	<1	<5	<5	<2	<20	<1
	28-Jun-05	35	<1	<5	<2		<20	<1
	14-Jun-06	35	<1	<5	<2			<1
	Representative value		<1	<5	<3.5	<2	<20	<1
BC-5D	23-Apr-03	85	3.8	<5	<5			<1
	28-Apr-04	85						<1
	3-Nov-04	85	4.0	<5	<5	<2	<20	<1
	28-Jun-05	85	<1	<5	<2		<20	<1
	14-Jun-06	85	<1	<5	<2			<1
	Representative value		2	<5	<3.5	<2	<20	<1

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-5S	23-Apr-03		<0.02	<500	10	<5	170	
	28-Apr-04					<5	<50	
	2-Nov-04	19		<400	11	<5	<50	
	28-Jun-05	18		<400	13	<5	<50	
	14-Jun-06	19		<400	12	<5	74	
	Representative value			<0.02	<400	11.5	<5	122
BC-5i	23-Apr-03		<0.02	<500	11	<5	<50	
	28-Apr-04					<5	<50	
	2-Nov-04	35		<400	11	<5	<50	
	28-Jun-05	35		<400	13	<5	<50	
	14-Jun-06	35		<400	13	<5	<50	
	Representative value			<0.02	<400	12	<5	<50
BC-5D	23-Apr-03	85	<0.02	<500	14	<5	<50	
	28-Apr-04	85				<5	<50	
	3-Nov-04	85		<400	15	<5	60	
	28-Jun-05	85		<400	19	<5	<50	
	14-Jun-06	85		<400	17	<5	<50	
	Representative value			<0.02	<400	16	<5	<50

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-5S	23-Apr-03		<10	26	<2	<25	<2	610
	28-Apr-04		<10	16	<2	<25	<2	<50
	2-Nov-04	19	<5	21	<2	<25	<2	<50
	28-Jun-05	18	<5	20	<2	<25	<2	<50
	14-Jun-06	19	<5	21	<2	<25	<2	79
	Representative value		<5	21	<2	<25	<2	345
BC-5i	23-Apr-03		<10	11	<2	<25	<2	<50
	28-Apr-04		<10	<10	<2	<25	<2	58
	2-Nov-04	35	<5	<10	<2	<25	<2	<50
	28-Jun-05	35	<5	10	<2	<25	<2	<50
	14-Jun-06	35	<5	11	<2	<25	<2	<50
	Representative value		<5	11	<2	<25	<2	<50
BC-5D	23-Apr-03	85	<10	24	<2	<25	<2	350
	28-Apr-04	85	<10	18	<2	<25	<2	58
	3-Nov-04	85	<5	16	<2	<25	2.5	880
	28-Jun-05	85	<5	16	<2	<25	<2	82
	14-Jun-06	85	<5	22	<2	<25	<2	92
	Representative value		<5	18	<2	<25	3	92

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-5S	23-Apr-03			47	<10	<10	<5	<10
	28-Apr-04			13	<10	<10	<5	<10
	2-Nov-04	19		29	<10	<10	<5	390
	28-Jun-05	18	<200	17	<10	<10	<5	<10
	14-Jun-06	19	<200	12	<10	<10	<5	<10
	Representative value		<200	17	<10	<10	<5	390
BC-5i	23-Apr-03			<10	<10	<10	<5	<10
	28-Apr-04			<10	<10	<10	<5	<10
	2-Nov-04	35		<10	<10	<10	<5	<10
	28-Jun-05	35	<200	<10	<10	<10	<5	<10
	14-Jun-06	35	<200	<10	<10	<10	<5	<10
	Representative value		<200	<10	<10	<10	<5	<10
BC-5D	23-Apr-03	85		190	<10	<10	<5	2600
	28-Apr-04	85		83	<10	<10	<5	870
	3-Nov-04	85		76	<10	32	<5	1400
	28-Jun-05	85	<200	47	<10	<10	<5	1000
	14-Jun-06	85	<200	68	<10	<10	<5	1800
	Representative value		<200	76	<10	<10	<5	1400

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-5S	23-Apr-03							
	28-Apr-04							
	2-Nov-04	19	5.8	1.00	0.80	0.94	1.90	
	28-Jun-05	18	5.3	1.00	0.69	0.84	1.90	
	14-Jun-06	19	5.4	0.98	0.72	0.78	1.90	
	Representative value		5.5	1.00	0.72	0.84	1.90	
BC-5i	23-Apr-03							
	28-Apr-04							
	2-Nov-04	35						
	28-Jun-05	35	4.4	0.78	0.59	0.60	2.00	
	14-Jun-06	35	4.5	0.82	0.59	0.60	1.90	
	Representative value		4.4	0.80	0.59	0.60	1.95	
BC-5D	23-Apr-03	85						
	28-Apr-04	85						
	3-Nov-04	85						
	28-Jun-05	85	20.7	5.80	1.50	2.20	3.20	
	14-Jun-06	85	14.6	3.70	1.30	1.70	2.70	
	Representative value		17.6	4.75	1.40	1.95	2.95	

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-5S	23-Apr-03							
	28-Apr-04							
	2-Nov-04	19	<50	<5	20	<2	<25	<2
	28-Jun-05	18	<50	<5	20	<2	<25	<2
	14-Jun-06	19	<50	<5	21	<2	<25	<2
	Representative value		<50	<5	20	<2	<25	<2
BC-5i	23-Apr-03							
	28-Apr-04							
	2-Nov-04	35						
	28-Jun-05	35	<50	<5	10	<2	<25	<2
	14-Jun-06	35	<50	<5	12	<2	<25	<2
	Representative value		<50	<5	11	<2	<25	<2
BC-5D	23-Apr-03	85						
	28-Apr-04	85						
	3-Nov-04	85						
	28-Jun-05	85	<50	<5	22	<2	<25	<2
	14-Jun-06	85	<50	<5	21	<2	<25	<2
	Representative value		<50	<5	22	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-5S	23-Apr-03							
	28-Apr-04							
	2-Nov-04	19	<50		30	<10	<10	<5
	28-Jun-05	18	<50	<200	13	<10	<10	<5
	14-Jun-06	19	<50	<200	12	<10	<10	<5
	Representative value		<50	<200	13	<10	<10	<5
BC-5i	23-Apr-03							
	28-Apr-04							
	2-Nov-04	35						
	28-Jun-05	35	<50	<200	<10	<10	<10	<5
	14-Jun-06	35	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-5D	23-Apr-03	85						
	28-Apr-04	85						
	3-Nov-04	85						
	28-Jun-05	85	86	<200	86	<10	<10	<5
	14-Jun-06	85	52	<200	64	<10	<10	<5
	Representative value		69	<200	75	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-5S	23-Apr-03							
	28-Apr-04							
	2-Nov-04	19	<5	<10	<1	<1		
	28-Jun-05	18	<5	<10				
	14-Jun-06	19	<5	<10				
	Representative value		<5	<10	<1	<1		
BC-5i	23-Apr-03							
	28-Apr-04							
	2-Nov-04	35			<1	<1		
	28-Jun-05	35	<5	<10				
	14-Jun-06	35	<5	<10				
	Representative value		<5	<10	<1	<1		
BC-5D	23-Apr-03	85						
	28-Apr-04	85						
	3-Nov-04	85			<1	<1		
	28-Jun-05	85	<5	1900				
	14-Jun-06	85	<5	1700				
	Representative value		<5	1800	<1	<1		

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-5S	23-Apr-03					0	950	<0.02
	28-Apr-04							
	2-Nov-04	19						
	28-Jun-05	18						
	14-Jun-06	19						
	Representative value					0	950	<0.02
BC-5i	23-Apr-03					0	2760	<0.02
	28-Apr-04							
	2-Nov-04	35						
	28-Jun-05	35						
	14-Jun-06	35						
	Representative value					0	2760	<0.02
BC-5D	23-Apr-03	85				0	3030	0.1
	28-Apr-04	85						
	3-Nov-04	85						
	28-Jun-05	85						
	14-Jun-06	85						
	Representative value					0	3030	0.1

**Bent Creek Hydrogeologic Research Station
BC-5 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-5S	23-Apr-03		0.02	1.7	25	
	28-Apr-04					
	2-Nov-04	19				
	28-Jun-05	18				
	14-Jun-06	19				
	Representative value		0.02	1.7	25	
BC-5i	23-Apr-03		0.01	0.8	22	
	28-Apr-04					
	2-Nov-04	35				
	28-Jun-05	35				
	14-Jun-06	35				
	Representative value		0.01	0.8	22	
BC-5D	23-Apr-03	85	0.03	4	30	
	28-Apr-04	85				
	3-Nov-04	85				
	28-Jun-05	85				
	14-Jun-06	85				
	Representative value		0.03	4	30	

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-6D	7-Nov-05		7.4	7.1	50	20.3	381	
	14-Jun-06	100	5.9	6.7	41	13.3	332	38
	Representative value		7	7	46	17	357	38

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-6D	7-Nov-05			23.5	5.80	2.20	2.90	3.80
	14-Jun-06	100	11	13.2	3.30	1.20	1.30	2.90
	Representative value		11	18.4	4.55	1.70	2.10	3.35

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO3	Chloride mg/L as Cl	Sulfate mg/L as SO4	Nitrate as N mg/L as NO3	Nitrite as N mg/L as NO2	TKN as N mg/L as TKN
BC-6D	7-Nov-05				<5			
	14-Jun-06	100	15	<1	<2	<0.02	<0.01	<0.2
	Representative value		15	<1	<3.5	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO₂+NO₃ as N mg/L as N	Ammonia as N mg/L as NH₃	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO₄	Sulfide mg/L as H₂S	ANC, TIT. 4.5, L mg/L as CaCO₃
BC-6D	7-Nov-05							
	14-Jun-06	100	<0.02	<0.02	0.08	0.05	<0.1	
	Representative value		<0.02	<0.02	0.08	0.05	<0.1	

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	Total Organic Carbon mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-6D	7-Nov-05							<1
	14-Jun-06	100	5.3	<5	<2		<20	<1
	Representative value		5	<5	<2		<20	<1

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-6D	7-Nov-05					<5	1400	
	14-Jun-06	100		<400	20	<5	380	
	Representative value			<400	20	<5	890	

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-6D	7-Nov-05		<5	29	<2	<25	2.4	3500
	14-Jun-06	100	<5	17	<2	<25	<2	550
	Representative value		<5	23	<2	<25	2	2025

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-6D	7-Nov-05			95	<10	<10	<5	350
	14-Jun-06	100	<200	21	<10	<10	<5	370
	Representative value		<200	58	<10	<10	<5	360

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-6D	7-Nov-05							
	14-Jun-06	100	11.9	3.10	1.00	1.10	2.80	
	Representative value		11.9	3.10	1.00	1.10	2.80	

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-6D	7-Nov-05							
	14-Jun-06	100	<50	<5	12	<2	<25	<2
	Representative value		<50	<5	12	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-6D	7-Nov-05							
	14-Jun-06	100	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-6D	7-Nov-05							
	14-Jun-06	100	<5	360				
	Representative value		<5	360				

**Bent Creek Hydrogeologic Research Station
BC-6 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-6D	7-Nov-05							
	14-Jun-06	100						
	Representative value							

BC-6 Cluster in area of ground water recharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-6D	7-Nov-05					
	14-Jun-06	100				
	Representative value					

Water Quality Analyses
Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge

Sample Location	Sample Date	Sample Pump Depth ft btoc	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
BC-7S	23-Apr-03		4.7	5.7	21	12.2		16
	28-Apr-04	22	5.7	6.4	20	12.8		
	3-Nov-04	20	6.1		14	15.3		16
	28-Jun-05	20	5.1	5.4	18	14.0		11
	14-Jun-06	20	4.5	6.7	18	13.4		16
	21-Aug-07	20	5.9	11.9	10	17.2	463	
	Representative value		5	6	18	14	463	16
BC-7i	23-Apr-03		5.2	6.9	12	13.7		12
	28-Apr-04	45	6.1	6.6	9	13.0		
	3-Nov-04	40	6.6	9.0	11	14.0		16
	28-Jun-05	40	5.6	7.4	11	14.1		10
	14-Jun-06	40	4.4	7.5	14	14.7		17
	21-Aug-07	40	5.5	11.2	14	14.6	456	14
	Representative value		6	7	12	14	456	14
BC-7D	23-Apr-03	140	8.6	0.2	213	15.3		110
	28-Apr-04	140	8.0		104	14.8		
	3-Nov-04	140	7.8	1.0	134	15.5		78
	28-Jun-05	140	7.6	0.3	139	14.5		100
	14-Jun-06	140	7.4	0.2	180	15.3		100
	21-Aug-07	140	8.4	0.6	209	15.5	103	116
	Representative value		8	0.3	160	15	103	100

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
BC-7S	23-Apr-03		60	7.0	1.20	0.97	1.50	1.00
	28-Apr-04	22		5.8	1.20	0.69	1.20	0.73
	3-Nov-04	20	30	4.4	0.71	0.65	1.40	1.10
	28-Jun-05	20	<2.5	5.0	0.82	0.71	1.40	0.92
	14-Jun-06	20	4.2	5.5	0.83	0.83	1.40	1.00
	21-Aug-07	20	120	7.4	0.64	1.40	1.60	0.99
	Representative value		30	5.2	0.83	0.77	1.40	1.00
BC-7i	23-Apr-03			9.0	0.81	1.70	1.40	0.83
	28-Apr-04	45		3.9	0.47	0.66	0.50	0.50
	3-Nov-04	40	6	4.5	0.55	0.76	0.72	0.76
	28-Jun-05	40	3	4.6	0.64	0.74	0.67	0.79
	14-Jun-06	40	4	4.5	0.51	0.78	0.70	0.71
	21-Aug-07	40	<6.2	3.8	0.41	0.68	0.63	0.64
	Representative value		4	4.4	0.53	0.75	0.69	0.74
BC-7D	23-Apr-03	140	9.2	62.3	20.00	3.00	10.00	14.00
	28-Apr-04	140		44.8	14.00	2.40	2.30	4.90
	3-Nov-04	140	<2.5	49.4	15.00	2.90	3.00	6.40
	28-Jun-05	140	<2.5	59.8	19.00	3.00	3.60	8.50
	14-Jun-06	140	<2.5	71.0	23.00	3.30	4.40	9.20
	21-Aug-07	140	<6.2	78.9	26.00	3.40	4.70	8.40
	Representative value		<2.5	61.0	19.50	3.00	4.00	8.45

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Bicarbonate mg/L as HCO ₃	Chloride mg/L as Cl	Sulfate mg/L as SO ₄	Nitrate as N mg/L as NO ₃	Nitrite as N mg/L as NO ₂	TKN as N mg/L as TKN
BC-7S	23-Apr-03		7	<5	<5			<0.2
	28-Apr-04	22						
	3-Nov-04	20	8	1	<2	<0.2	0.02	<0.2
	28-Jun-05	20	<1	1.1	<2	0.07	<0.01	<0.2
	14-Jun-06	20	4	1.1	<2	0.02	<0.01	<0.2
	21-Aug-07	20	3.7	<1	<2	<0.02	<0.01	<0.2
	Representative value		3.7	1	<2	0.055	<0.01	<0.2
BC-7i	23-Apr-03		5	<5	<5			<0.2
	28-Apr-04	45						
	3-Nov-04	40	6	<1	<2	<0.2	<0.01	<0.2
	28-Jun-05	40	1.5	1.1	<2	0.1	<0.01	<0.2
	14-Jun-06	40	3	1.1	<2	<0.02	<0.01	<0.2
	21-Aug-07	40	3	<1	<2	<0.02	<0.01	<0.2
	Representative value		3	1.1	<2	0.1	<0.01	<0.2
BC-7D	23-Apr-03	140	54	<5	38			<0.2
	28-Apr-04	140						
	3-Nov-04	140	53	<1	7.5	<0.2	<0.01	<0.2
	28-Jun-05	140	56	<1	13	<0.02	<0.01	<0.02
	14-Jun-06	140	71	<1	15	<0.02	<0.01	<0.2
	21-Aug-07	140	78	<1	15	<0.02	<0.01	<0.2
	Representative value		56	<1	15	<0.02	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
BC-7S	23-Apr-03		<0.02		0.07			10
	28-Apr-04	22						
	3-Nov-04	20	<0.02	0.11	0.38	<0.02		
	28-Jun-05	20	0.07	0.02	0.03	<0.02		
	14-Jun-06	20	0.02	<0.02	0.03	0.02		
	21-Aug-07	20	<0.02	0.07	0.23	<0.02	<0.1	
	Representative value		<0.02	0.045	0.07	<0.02	<0.1	10
BC-7i	23-Apr-03		<0.02		0.27			6.2
	28-Apr-04	45						
	3-Nov-04	40	<0.02	<0.02	<0.02	<0.02		
	28-Jun-05	40	<0.1	<0.02	0.03	<0.02		
	14-Jun-06	40	<0.02	<0.02	0.03	<0.02		
	21-Aug-07	40	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	0.03	<0.02	<0.1	6.2
BC-7D	23-Apr-03	140	<0.02		<0.02			56.8
	28-Apr-04	140						
	3-Nov-04	140	<0.02	<0.02	0.02	<0.02		
	28-Jun-05	140	<0.02	<0.02	0.07	<0.02		
	14-Jun-06	140	<0.02	<0.02	<0.02	<0.02		
	21-Aug-07	140	<0.02	<0.02	<0.02	<0.02	<0.1	
	Representative value		<0.02	<0.02	<0.02	<0.02	<0.1	56.8

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Turbidity NTU	Color CU	Total Organic Carbon mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO3
BC-7S	23-Apr-03			<5	<5			<1
	28-Apr-04	22						<1
	3-Nov-04	20	80.0	<5	<5	<2	<20	<1
	28-Jun-05	20	3.7	<5	<2		<20	<1
	14-Jun-06	20	8.6	<5	<2			<1
	21-Aug-07	20	300.0		2.7		<20	<1
	Representative value		44		<5	<5	<2	<20
BC-7i	23-Apr-03			<5	<5			<1
	28-Apr-04	45						<1
	3-Nov-04	40	15.0	<5	<5	<2	<20	<1
	28-Jun-05	40	4.1	<5	<2		<20	<1
	14-Jun-06	40	7.2	<5	<2			<1
	21-Aug-07	40	2.7		<2		<20	<1
	Representative value		6		<5	<2	<2	<20
BC-7D	23-Apr-03	140	7.8	<5	<5			<1
	28-Apr-04	140						<1
	3-Nov-04	140	3.0	<5	<5	<2	<20	<1
	28-Jun-05	140	<1	<5	<2		<20	<1
	14-Jun-06	140	1.3	<5	<2			<1
	21-Aug-07	140	1.7		<2		<20	<1
	Representative value		2		<5	<2	<2	<20

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO2	Silver ug/L as Ag	Aluminum ug/L as Al	
BC-7S	23-Apr-03		<0.02	<500	7	<5	980	
	28-Apr-04	22				<5	830	
	3-Nov-04	20		<400	6	<5	180	
	28-Jun-05	20		<400	6.9	<5	68	
	14-Jun-06	20			7	<5	630	
	21-Aug-07	20			6.3	<5	4700	
	Representative value			<0.02	<400	6.9	<5	730
BC-7i	23-Apr-03		<0.02	<500	8	<5	3500	
	28-Apr-04	45				<5	<50	
	3-Nov-04	40		<400	6	<5	160	
	28-Jun-05	40		<400	7.3	<5	70	
	14-Jun-06	40		<400	7	<5	160	
	21-Aug-07	40		<400	6.6	<5	90	
	Representative value			<0.02	<400	7	<5	160
BC-7D	23-Apr-03	140	<0.02	<500	12	<5	110	
	28-Apr-04	140				<5	<50	
	3-Nov-04	140		<400	12	<5	50	
	28-Jun-05	140		<400	10	<5	<50	
	14-Jun-06	140		<400	9	<5	57	
	21-Aug-07	140		<400	6.8	<5	<50	
	Representative value			<0.02	<400	10	<5	57

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
BC-7S	23-Apr-03		<10	31	<2	<25	9.7	3600
	28-Apr-04	22	<10	19	<2	<25	<2	2900
	3-Nov-04	20	<5	19	<2	<25	<2	490
	28-Jun-05	20	<5	17	<2	<25	<2	75
	14-Jun-06	20	<5	28	<2	<25	<2	1400
	21-Aug-07	20	<5	46	<1	<10	10	17000
	Representative value		<5	24	<2	<25	10	2150
BC-7i	23-Apr-03		<10	84	<2	<25	7.1	9800
	28-Apr-04	45	<10	<10	<2	<25	<2	<50
	3-Nov-04	40	<5	<10	<2	<25	<2	460
	28-Jun-05	40	<5	<10	<2	<25	<2	<50
	14-Jun-06	40	<5	<10	<2	<25	<2	440
	21-Aug-07	40	<5	<10	<1	<10	<2	260
	Representative value		<5	84	<2	<25	7	450
BC-7D	23-Apr-03	140	<10	19	<2	<25	<2	250
	28-Apr-04	140	<10	10	<2	<25	<2	380
	3-Nov-04	140	<5	15	<2	<25	5.4	140
	28-Jun-05	140	<5	16	<2	<25	<2	<50
	14-Jun-06	140	<5	22	<2	<25	<2	56
	21-Aug-07	140	<5	21	<1	<10	<2	150
	Representative value		<5	18	<2	<25	<2	150

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
BC-7S	23-Apr-03			35	<10	<10	<5	24
	28-Apr-04	22		<10	<10	<10	<5	<10
	3-Nov-04	20		<10	<10	<10	<5	13
	28-Jun-05	20	<200	<10	<10	<10	<5	<10
	14-Jun-06	20	<200	13	<10	<10	<5	14
	21-Aug-07	20	<200	90	<10	<10	<5	21
	Representative value		<200	9	<10	<10	<5	14
BC-7i	23-Apr-03			580	<10	<10	<5	30
	28-Apr-04	45		580	<10	<10	<5	<10
	3-Nov-04	40		30	<10	<10	<5	<10
	28-Jun-05	40	<200	18	<10	<10	<5	<10
	14-Jun-06	40	<200	26	<10	<10	<5	<10
	21-Aug-07	40	<200	15	<10	<10	<5	<10
	Representative value		<200	28	<10	<10	<5	<10
BC-7D	23-Apr-03	140		27	<10	<10	<5	2600
	28-Apr-04	140		95	<10	<10	<5	1000
	3-Nov-04	140		120	<10	<10	<5	1600
	28-Jun-05	140	<200	13	<10	<10	<5	700
	14-Jun-06	140	<200	150	<10	<10	<5	900
	21-Aug-07	140	<200	32	<10	<10	<5	730
	Representative value		<200	64	<10	<10	<5	950

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
BC-7S	23-Apr-03							
	28-Apr-04	22						
	3-Nov-04	20						
	28-Jun-05	20	5.0	0.82	0.71	1.40	0.97	
	14-Jun-06	20	4.8	0.70	0.74	1.20	0.99	
	21-Aug-07	20	3.9	0.54	0.62	1.00	0.89	
	Representative value		4.7	0.70	0.71	1.20	0.97	
BC-7i	23-Apr-03							
	28-Apr-04	45						
	3-Nov-04	40						
	28-Jun-05	40	4.2	0.50	0.72	0.65	0.71	
	14-Jun-06	40	4.2	0.47	0.73	0.64	0.68	
	21-Aug-07	40	3.8	0.40	0.67	0.58	0.61	
	Representative value		4.1	0.47	0.72	0.64	0.68	
BC-7D	23-Apr-03	140						
	28-Apr-04	140						
	3-Nov-04	140						
	28-Jun-05	140	60.2	19.00	3.10	3.60	8.40	
	14-Jun-06	140	71.0	23.00	3.30	4.30	9.10	
	21-Aug-07	140	81.8	27.00	3.50	4.80	8.70	
	Representative value		71.0	23.00	3.30	4.30	8.70	

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
BC-7S	23-Apr-03							
	28-Apr-04	22						
	3-Nov-04	20						
	28-Jun-05	20	<50	<5	18	<2	<25	<2
	14-Jun-06	20	<50	<5	19	<2	<25	<2
	21-Aug-07	20	<50	<5	13	<1	<10	<2
	Representative value		<50	<5	18	<2	<25	<2
BC-7i	23-Apr-03							
	28-Apr-04	45						
	3-Nov-04	40						
	28-Jun-05	40	<50	<5	<10	<2	<25	<2
	14-Jun-06	40	<50	<5	<10	<2	<25	<2
	21-Aug-07	40	<50	<5	<10	<1	<10	<2
	Representative value		<50	<5	<10	<2	<25	<2
BC-7D	23-Apr-03	140						
	28-Apr-04	140						
	3-Nov-04	140						
	28-Jun-05	140	<50	<5	16	<2	<25	<2
	14-Jun-06	140	<50	<5	21	<2	<25	<2
	21-Aug-07	140	<50	<5	21	<1	<10	<2
	Representative value		<50	<5	21	<2	<25	<2

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
BC-7S	23-Apr-03							
	28-Apr-04	22						
	3-Nov-04	20						
	28-Jun-05	20	<50	<200	<10	<10	<10	<5
	14-Jun-06	20	<50	<200	<10	<10	<10	<5
	21-Aug-07	20	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-7i	23-Apr-03							
	28-Apr-04	45						
	3-Nov-04	40						
	28-Jun-05	40	<50	<200	<10	<10	<10	<5
	14-Jun-06	40	<50	<200	<10	<10	<10	<5
	21-Aug-07	40	<50	<200	<10	<10	<10	<5
	Representative value		<50	<200	<10	<10	<10	<5
BC-7D	23-Apr-03	140						
	28-Apr-04	140						
	3-Nov-04	140						
	28-Jun-05	140	<50	<200	<10	<10	<10	<5
	14-Jun-06	140	<50	<200	150	<10	<10	<5
	21-Aug-07	140	<50	<200	17	<10	<10	<5
	Representative value		<50	<200	17	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
BC-7S	23-Apr-03							
	28-Apr-04	22						
	3-Nov-04	20			<1	<1		
	28-Jun-05	20	<5	<10				
	14-Jun-06	20	<5	<10				
	21-Aug-07	20	<5	<10				
	Representative value		<5	<10	<1	<1		
BC-7i	23-Apr-03							
	28-Apr-04	45						
	3-Nov-04	40			<1	<1	0	0
	28-Jun-05	40	<5	<10				
	14-Jun-06	40	<5	<10				
	21-Aug-07	40	<5	<10				
	Representative value		<5	<10	<1	<1	0	0
BC-7D	23-Apr-03	140			<1	<1		
	28-Apr-04	140						
	3-Nov-04	140			<1	<1	0	0
	28-Jun-05	140	<5	650				
	14-Jun-06	140	<5	820				
	21-Aug-07	140	<5	610				
	Representative value		<5	650	<1	<1	0	0

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
BC-7S	23-Apr-03					0	810	<0.02
	28-Apr-04	22						
	3-Nov-04	20						
	28-Jun-05	20						
	14-Jun-06	20						
	21-Aug-07	20						
	Representative value					0	810	<0.02
BC-7i	23-Apr-03					0	750	<0.02
	28-Apr-04	45						
	3-Nov-04	40	0	0	0			
	28-Jun-05	40						
	14-Jun-06	40						
	21-Aug-07	40						
	Representative value		0	0	0	0	750	<0.02
BC-7D	23-Apr-03	140				0	90	1.6
	28-Apr-04	140						
	3-Nov-04	140	0	0	0			
	28-Jun-05	140						
	14-Jun-06	140						
	21-Aug-07	140						
	Representative value		0	0	0	0	90	1.6

**Bent Creek Hydrogeologic Research Station
BC-7 Cluster in area of ground water recharge**

Sample Location	Sample Date	Sample Pump Depth ft btoc	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
BC-7S	23-Apr-03		0.06	1.9	23	
	28-Apr-04	22				
	3-Nov-04	20				
	28-Jun-05	20				
	14-Jun-06	20				
	21-Aug-07	20				
	Representative value		0.06	1.9	23	
BC-7i	23-Apr-03		0.01	1.3	29	
	28-Apr-04	45				
	3-Nov-04	40				
	28-Jun-05	40				
	14-Jun-06	40				
	21-Aug-07	40				
	Representative value		0.01	1.3	29	
BC-7D	23-Apr-03	140	0.02	10.8	20	
	28-Apr-04	140				
	3-Nov-04	140				
	28-Jun-05	140				
	14-Jun-06	140				
	21-Aug-07	140				
	Representative value		0.02	10.8	20	

Water Quality Analyses
Bent Creek Hydrogeologic Research Station - Stream samples

Sample Location	Sample Date	pH std units	Dissolved Oxygen mg/L	Specific Cond uS/cm	Water Temp degrees C	Oxidation Reduction Potential, raw value mV	Total Dissolved Solids mg/L
Boyd Branch near BC-2	23-Apr-03	6.5	8.5	18	13.2		24
	27-Apr-04	7.2	8.6	17	13.3		
	1-Nov-04	6.1	7.6	19	15.3		28
	29-Jun-05	6.2	9.3	17	16.0	146	23
	18-Aug-05	7.3	8.2	18	18.1		30
	12-Jun-06						22
	20-Aug-07	7.0	10.9	21	19.7	306	26
	Representative value	7	9	18	16	226	25
Trib to Boyd Branch near BC-3	27-Apr-04	6.8	9.4	17	12.7		26
	Representative value	6.8	9.4	17	12.7		26
Trib to Boyd Branch near BC-7	1-Nov-04	6.9	7.5	14	15.6		28
	18-Aug-05	7.3	7.7	21	18.0		28
	28-Jun-05	7.0	8.7	24	16.7		28
	14-Jun-06	5.4	7.8	22	17.8		30
	21-Aug-07	6.9	11.0	25	18.4	391	26
	Representative value	7	8	22	18	391	28
Bent Creek	22-Apr-03	6.6	9.2	6	12.8		24
	28-Apr-04	6.5		14	11.0		
	1-Nov-04	6.4	8.1	16	15.6		24
	29-Jun-05	6.4	9.6	14	15.2		20
	13-Jun-06	7.5	8.1	23	16.1		22
	21-Aug-07	7.2	8.7	21	21.0	338	23
	Representative value	7	9	15	15	338	23

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Total Suspended Solids, residue at 180 deg C mg/L	Hardness (Ca and Mg) mg/L as CaCO3	Calcium mg/L as Ca	Magnesium mg/L as Mg	Potassium mg/L as K	Sodium mg/L as Na
Boyd Branch near BC-2	23-Apr-03	8.1	7.3	1.60	0.81	0.68	1.70
	27-Apr-04		4.9	0.97	0.60	0.49	1.10
	1-Nov-04	<2.5	5.1	0.98	0.64	0.73	1.50
	29-Jun-05	44	6.3	1.20	0.81	0.80	1.30
	18-Aug-05	9.5	7.3	1.50	0.87	0.87	1.80
	12-Jun-06	4.2	6.2	1.20	0.78	0.77	1.70
	20-Aug-07	<6.2	6.3	1.30	0.73	0.78	1.70
	Representative value	6	6.2	1.20	0.78	0.77	1.70
Trib to Boyd Branch near BC-3	27-Apr-04		8.1	1.10	1.30	0.98	1.20
	Representative value		8.1	1.10	1.30	0.98	1.20
Trib to Boyd Branch near BC-7	1-Nov-04	9	4.4	0.83	0.56	0.65	1.20
	18-Aug-05	6.5	8.3	1.70	0.99	0.88	1.90
	28-Jun-05	40	8.6	1.80	1.00	0.93	1.60
	14-Jun-06	5.8	7.7	1.60	0.89	0.70	1.90
	21-Aug-07	<6.2	7.6	1.60	0.87	0.68	1.90
	Representative value	7	7.7	1.60	0.89	0.70	1.90
Bent Creek	22-Apr-03	7.5	3.9	0.79	0.47	0.45	1.00
	28-Apr-04						
	1-Nov-04	<2.5	4.1	0.80	0.52	0.66	1.20
	29-Jun-05	31	4.9	0.93	0.62	0.62	1.20
	13-Jun-06	3	5.5	1.10	0.68	0.69	1.50
	21-Aug-07	<6.2	5.5	1.20	0.62	0.68	1.60
	Representative value	3	4.9	0.93	0.62	0.66	1.20

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Bicarbonate mg/L as HCO3	Chloride mg/L as Cl	Sulfate mg/L as SO4	Nitrate as N mg/L as NO3	Nitrite as N mg/L as NO2	TKN as N mg/L as TKN
Boyd Branch near BC-2	23-Apr-03	8	<5	<5			<0.2
	27-Apr-04						
	1-Nov-04	7	<1	<2	0.07	<0.02	<0.2
	29-Jun-05	3.6	<1	3.2	0.01	0.01	<0.2
	18-Aug-05	6.6	1	<2	0.06	<0.01	<0.2
	12-Jun-06	7.5	<1	<2	0.05	<0.01	0.22
	20-Aug-07	6.5	<1	<2	0.04	<0.01	<0.2
	Representative value	6.8	<1	<2	0.05	<0.01	<0.2
Trib to Boyd Branch near BC-3	27-Apr-04		<5	<2	<0.04	0.01	<0.2
	Representative value		<5	<2	<0.04	0.01	<0.2
Trib to Boyd Branch near BC-7	1-Nov-04	4		<2	0.07	<0.01	<0.2
	18-Aug-05	6.1	<1	<2	0.03	<0.01	<0.2
	28-Jun-05	4.6	1	<2	0.07	<0.01	<0.2
	14-Jun-06	7.5	<1	<2	0.14	<0.01	<0.2
	21-Aug-07	8	<1	<2	<0.02	<0.01	<0.2
	Representative value	6.1	<1	<2	0.07	<0.01	<0.2
Bent Creek	22-Apr-03	4	<5	<5			<0.2
	28-Apr-04						
	1-Nov-04	6	<1	<2	<0.02	<0.01	<0.2
	29-Jun-05	2.5	<1	2	0.13	<0.01	<0.2
	13-Jun-06	5	<1	<2	0.06	<0.01	<0.2
	21-Aug-07	5	<1	<2	0.06	<0.01	<0.2
	Representative value	5	<1	<2	0.06	<0.01	<0.2

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	NO2+NO3 as N mg/L as N	Ammonia as N mg/L as NH3	Total Phosphorous as P mg/L as P	Phosphate mg/L as PO4	Sulfide mg/L as H2S	ANC, TIT. 4.5, L mg/L as CaCO3
Boyd Branch near BC-2	23-Apr-03	<0.02		<0.02			8
	27-Apr-04						
	1-Nov-04	0.09	<0.02	0.02	<0.02		
	29-Jun-05	0.02	<0.02	0.05	<0.02		
	18-Aug-05	0.06	<0.02	0.15	<0.02		
	12-Jun-06	0.05	<0.02	0.02	<0.02		
	20-Aug-07	0.04	<0.02	<0.02	<0.02	<0.1	
	Representative value	0.05	<0.02	0.02	<0.02	<0.1	8
Trib to Boyd Branch near BC-3	27-Apr-04	<0.04	<0.02	0.25			
	Representative value	<0.04	<0.02	0.25			
Trib to Boyd Branch near BC-7	1-Nov-04	0.07	<0.02	0.03	<0.02		
	18-Aug-05	0.03	0.02	0.03	0.06		
	28-Jun-05	0.07	<0.02	0.02	<0.002		
	14-Jun-06	0.14	<0.02	0.03	<0.02		
	21-Aug-07	0.05	<0.02	0.02	<0.02	<0.1	
	Representative value	0.07	<0.02	0.03	<0.02	<0.1	
Bent Creek	22-Apr-03	0.02		0.02			2.6
	28-Apr-04						
	1-Nov-04	<0.02	<0.02	<0.02	<0.02		
	29-Jun-05	0.13	<0.02	0.05	<0.02		
	13-Jun-06	0.06	<0.02	0.02	<0.02		
	21-Aug-07	0.06	<0.02	<0.02	<0.02	<0.1	
	Representative value	0.06	<0.02	0.015	<0.02	<0.1	2.6

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Turbidity NTU	Color CU	TOC mg/L	Biological Oxygen Demand mg/L	Chemical Oxygen Demand mg/L	Carbonate mg/L as CaCO ₃
Boyd Branch near BC-2	23-Apr-03	7.0	<5	<5			<1
	27-Apr-04						<1
	1-Nov-04	1.6	7	<5	<2	<20	<1
	29-Jun-05	32.0	11	<2		<20	<1
	18-Aug-05	11.0		<2		<20	<1
	12-Jun-06	3.4	6	<2			<1
	20-Aug-07	2.3		<2		<20	<1
	Representative value	5	7	<2	<2	<20	<1
Trib to Boyd Branch near BC-3	27-Apr-04	37.0	12	<5			<1
	Representative value	37.0	12	<5			<1
Trib to Boyd Branch near BC-7	1-Nov-04	5.3	14	<5	<2	<20	<1
	18-Aug-05	5.6	9	<2		<20	<1
	28-Jun-05	25.0	15	2.2		<20	<1
	14-Jun-06	3.3	<5	<2			<1
	21-Aug-07	4.2		<2		<20	<1
	Representative value	5	14	<2	<2	<20	<1
Bent Creek	22-Apr-03	6.8	<5	<5			<1
	28-Apr-04						<1
	1-Nov-04	<1	9	<5	<2	<20	<1
	29-Jun-05	14.0	<5	<2		<20	<1
	13-Jun-06	2.7	7	<2			<1
	21-Aug-07	1.4		<2		<20	<1
	Representative value	3	5	<2	<2	<20	<1

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Cyanide mg/L as HCN	Fluoride ug/L as F	Silica mg/L as SiO ₂	Silver ug/L as Ag	Aluminum ug/L as Al	
Boyd Branch near BC-2	23-Apr-03	<0.02	<500	12	<5	210	
	27-Apr-04				<5	270	
	1-Nov-04		<400	10	<5	76	
	29-Jun-05		<400	10	<5	580	
	18-Aug-05		<400	13	<5	210	
	12-Jun-06		<400	12	<5	150	
	20-Aug-07		<400	13	<5	120	
	Representative value	<0.02	<400	12	<5	210	
Trib to Boyd Branch near BC-3	27-Apr-04		<50	9.4	<5	2900	
	Representative value		<50	9.4	<5	2900	
Trib to Boyd Branch near BC-7	1-Nov-04		<400	8	<5	290	
	18-Aug-05		<400	13	<5	380	
	28-Jun-05		<400	12	<5	340	
	14-Jun-06		<400	13	<5	220	
	21-Aug-07		<400	14	<5	240	
	Representative value		<400	13	<5	290	
Bent Creek	22-Apr-03	<0.02	<500	8	<5	230	
	28-Apr-04						
	1-Nov-04		<400	8	<5	<50	
	29-Jun-05		<400	7.8	<5	350	
	13-Jun-06		<400	11	<5	130	
	21-Aug-07		<400	11	<5	95	
	Representative value	<0.02	<400	8	<5	180	

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Arsenic ug/L as As	Barium ug/L as Ba	Cadmium ug/L as Cd	Chromium ug/L as Cr	Copper ug/L as Cu	Iron ug/L as Fe
Boyd Branch near BC-2	23-Apr-03	<10	11	<2	<25	<2	300
	27-Apr-04	<10	11	<2	<25	<2	340
	1-Nov-04	<5	<10	<2	<25	<2	210
	29-Jun-05	<5	23	<2	<25	<2	680
	18-Aug-05	<5	13	<2	<25	<2	320
	12-Jun-06	<5	13	<2	<25	<2	240
	20-Aug-07	<5	10	<1	<10	<2	230
	Representative value	<5	12	<2	<25	<2	<200
Trib to Boyd Branch near BC-3	27-Apr-04	<10	40	<2	<25	4	3400
	Representative value	<10	40	<2	<25	4	3400
Trib to Boyd Branch near BC-7	1-Nov-04	<5	11	<2	<25	<2	210
	18-Aug-05	<5	12	<2	<25	<2	410
	28-Jun-05	<5	14	<2	<25	<2	350
	14-Jun-06	<5	12	<2	<25	<2	260
	21-Aug-07	<5	11	<1	<10	<2	280
	Representative value	<5	12	<2	<25	<2	280
Bent Creek	22-Apr-03	<10	<10	<2	<25	<2	280
	28-Apr-04						
	1-Nov-04	<5	<10	<2	<25	<2	92
	29-Jun-05	<5	13	<2	<25	<2	410
	13-Jun-06	<5	11	<2	<25	<2	210
	21-Aug-07	<5	<10	<1	<10	<2	160
	Representative value	<5	12	<2	<25	<2	210

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Mercury ug/L as Hg	Manganese ug/L as Mn	Nickel ug/L as Ni	Lead ug/L as Pb	Selenium ug/L as Se	Zinc ug/L as Zn
Boyd Branch near BC-2	23-Apr-03		12	<10	<10	<5	<10
	27-Apr-04		13	<10	<10	<5	11
	1-Nov-04		22	<10	<10	<5	<10
	29-Jun-05	<200	45	<10	<10	<5	<10
	18-Aug-05	<200	18	<10	<10	<5	
	12-Jun-06	<200	12	<10	<10	<5	<10
	20-Aug-07	<200	12	<10	<10	<5	<10
	Representative value	<200	13	<10	<10	<5	<10
Trib to Boyd Branch near BC-3	27-Apr-04		79	<10	<10	<5	26
	Representative value		79	<10	<10	<5	26
Trib to Boyd Branch near BC-7	1-Nov-04		<10	<10	<10	<5	23
	18-Aug-05	<200	16	<10	<10	<5	13
	28-Jun-05	<200	24	<10	<10	<5	<10
	14-Jun-06	<200	11	<10	<10	<5	11
	21-Aug-07	<200	12	<10	<10	<5	<10
	Representative value	<200	14	<10	<10	<5	11
Bent Creek	22-Apr-03		11	<10	<10	<5	<10
	28-Apr-04						
	1-Nov-04		13	<10	<10	<5	<10
	29-Jun-05	<200	30	<10	<10	<5	12
	13-Jun-06	<200	10	<10	<10	<5	<10
	21-Aug-07	<200	<10	<10	<10	<5	<10
	Representative value	<200	11	<10	<10	<5	<10

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Hardness (Ca and Mg) - Filtered mg/L as CaCO3	Calcium - Filtered mg/L as Ca	Magnesium - Filtered mg/L as Mg	Potassium - Filtered mg/L as K	Sodium - Filtered mg/L as Na	Silica - Filtered mg/L as SiO2
Boyd Branch near BC-2	23-Apr-03						
	27-Apr-04	4.8	1.0	0.6	0.47	1.1	
	1-Nov-04						
	29-Jun-05	5.5	1.1	0.7	0.76	1.4	
	18-Aug-05	6.6	1.3	0.8	0.85	1.7	
	12-Jun-06	6.0	1.2	0.7	0.74	1.6	
	20-Aug-07	7.0	1.6	0.7	0.75	2	
	Representative value	6.0	1.2	0.7	1	2	
Trib to Boyd Branch near BC-3	27-Apr-04	5.3	1.1	0.6	0.65	1.1	
	Representative value	5.3	1.1	0.6	0.65	1.1	
Trib to Boyd Branch near BC-7	1-Nov-04	3.7	0.6	0.5	0.65	1.1	
	18-Aug-05	7.9	1.6	1.0	0.81	1.8	
	28-Jun-05	7.3	1.5	0.9	0.83	1.8	
	14-Jun-06	7.5	1.6	0.9	0.68	1.9	
	21-Aug-07	7.7	1.7	0.9	0.7	2	
	Representative value	7.5	1.6	0.9	1	2	
Bent Creek	22-Apr-03						
	28-Apr-04	3.7	0.8	0.4	0.39	0.91	
	1-Nov-04						
	29-Jun-05	4.4	0.9	0.5	0.63	1.3	
	13-Jun-06	4.8	1.0	0.6	0.67	1.5	
	21-Aug-07	5.3	1.1	0.6	0.64	1.5	
	Representative value	4.6	0.9	0.6	1	1	

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Aluminum - Filtered ug/L as Al	Arsenic - Filtered ug/L as As	Barium - Filtered ug/L as Ba	Cadmium - Filtered ug/L as Cd	Chromium - Filtered ug/L as Cr	Copper - Filtered ug/L as Cu
Boyd Branch near BC-2	23-Apr-03						
	27-Apr-04	<50	<10	<10	<2	<25	<2
	1-Nov-04						
	29-Jun-05	<50	<5	12	<2	<25	<2
	18-Aug-05	61	<5	11	<2	<25	2.3
	12-Jun-06	<50	<5	<10	<2	<25	<2
	20-Aug-07	<50	<5	<10	<1	<10	<2
	Representative value	61	<5	<10	<2	<25	<2
Trib to Boyd Branch near BC-3	27-Apr-04	70	<10	<10	<2	<25	<2
	Representative value	70	<10	<10	<2	<25	<2
Trib to Boyd Branch near BC-7	1-Nov-04	100	<5	<10	<2	<25	<2
	18-Aug-05	63	<5	<10	<2	<25	<2
	28-Jun-05	<50	<5	<10	<2	<25	<2
	14-Jun-06	54	<5	10	<2	<25	<2
	21-Aug-07	<50	<5	<10	<1	<10	<2
	Representative value	54	<5	<10	<2	<25	<2
Bent Creek	22-Apr-03						
	28-Apr-04	<50	<10	<10	<2	<25	<2
	1-Nov-04						
	29-Jun-05	68	<5	15	<2	<25	7.8
	13-Jun-06	<50	<5	18	<2	<25	29
	21-Aug-07	<50	<5	<10	<1	<10	<2
	Representative value	<50	<5	17	<2	<25	5

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Iron - Filtered ug/L as Fe	Mercury - Filtered ug/L as Hg	Manganese - Filtered ug/L as Mn	Nickel - Filtered ug/L as Ni	Lead - Filtered ug/L as Pb	Selenium - Filtered ug/L as Se
Boyd Branch near BC-2	23-Apr-03						
	27-Apr-04	<50		<10	<10	<10	<5
	1-Nov-04						
	29-Jun-05	<50	<200	16	<10	<10	<5
	18-Aug-05	72	<200	11	<10	<10	<5
	12-Jun-06	55	<200	<10	<10	<10	<5
	20-Aug-07	<50	<200	<10	<10	<10	<5
	Representative value	<50	<200	<10	<10	<10	<5
Trib to Boyd Branch near BC-3	27-Apr-04	<50		<10	<10	<10	<5
	Representative value	<50		<10	<10	<10	<5
Trib to Boyd Branch near BC-7	1-Nov-04	66		<10	<10	<10	<5
	18-Aug-05	<50	<200	<10	<10	<10	<5
	28-Jun-05	<50	<200	<10	<10	<10	<5
	14-Jun-06	<50	<200	<10	<10	<10	<5
	21-Aug-07	<50	<200	<10	<10	<10	<5
	Representative value	<50	<200	<10	<10	<10	<5
Bent Creek	22-Apr-03						
	28-Apr-04	<50		<10	<10	<10	<5
	1-Nov-04						
	29-Jun-05	<50	<200	<10	<10	<10	<5
	13-Jun-06	<50	<200	<10	<10	<10	<5
	21-Aug-07	<50	<200	<10	<10	<10	<5
	Representative value	<50	<200	<10	<10	<10	<5

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Silver - Filtered ug/L as Ag	Zinc - Filtered ug/L as Zn	Fecal Coliform colonies/100 mL	Total Coliform colonies/100 mL	Organochlorine Pesticides # peaks	Organophosphate Pesticides # peaks
Boyd Branch near BC-2	23-Apr-03						
	27-Apr-04	<5	<10				
	1-Nov-04			34	200	0	0
	29-Jun-05	<5	<10				
	18-Aug-05	<5	<10				
	12-Jun-06	<5	<10				
	20-Aug-07	<5	13				
	Representative value	<5	<10	34	200	0	0
Trib to Boyd Branch near BC-3	27-Apr-04	<5	16				
	Representative value	<5	16				
Trib to Boyd Branch near BC-7	1-Nov-04	<5	<10	76	900		
	18-Aug-05	<5	<10				
	28-Jun-05	<5	<10				
	14-Jun-06	<5	17				
	21-Aug-07	<5	13				
	Representative value	<5	<10	76	900		
Bent Creek	22-Apr-03						
	28-Apr-04	<5	<10				
	1-Nov-04			56	130	0	0
	29-Jun-05	<5	23				
	13-Jun-06	<5	19				
	21-Aug-07	<5	<10				
	Representative value	<5	12	56	130	0	0

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Nitrogen Pesticides # peaks	Acid Herbicides # peaks	Semi-Volatile Organics # peaks	Volatile Organics # peaks	Radon-222 pCi/L	Total Uranium ug/L
Boyd Branch near BC-2	23-Apr-03					10	<0.02
	27-Apr-04						
	1-Nov-04	0	0	0			
	29-Jun-05						
	18-Aug-05						
	12-Jun-06						
	20-Aug-07						
Representative value		0	0	0		10	<0.02
Trib to Boyd Branch near BC-3	27-Apr-04						
	Representative value						
Trib to Boyd Branch near BC-7	1-Nov-04						
	18-Aug-05						
	28-Jun-05						
	14-Jun-06						
	21-Aug-07						
Representative value							
Bent Creek	22-Apr-03					20	0.01
	28-Apr-04						
	1-Nov-04	0	0	0			
	29-Jun-05						
	13-Jun-06						
	21-Aug-07						
Representative value		0	0	0		20	0.01

**Bent Creek Hydrogeologic Research Station
Stream samples**

Sample Location	Sample Date	Radium-226 pCi/L	Gross Beta pCi/L	Tritium pCi/L	
Boyd Branch near BC-2	23-Apr-03	0.02	10	27	
	27-Apr-04				
	1-Nov-04				
	29-Jun-05				
	18-Aug-05				
	12-Jun-06				
	20-Aug-07				
	Representative value	0.02	10	27	
Trib to Boyd Branch near BC-3	27-Apr-04				
	Representative value				
Trib to Boyd Branch near BC-7	1-Nov-04				
	18-Aug-05				
	28-Jun-05				
	14-Jun-06				
	21-Aug-07				
	Representative value				
Bent Creek	22-Apr-03	0.04	0.6	24	
	28-Apr-04				
	1-Nov-04				
	29-Jun-05				
	13-Jun-06				
	21-Aug-07				
	Representative value	0.04	0.6	24	