

Water Quality Analysis
Allison Woods Groundwater Monitoring and Research Station
MW-1 Cluster

Station ID	Sampling Date	Sampling Depth (ft)	Dissolved Oxygen (mg/L)	pH WH, Field (standard units)	pH-Lab WH, Lab (standard units)	Specific Cond., Field (us/cm)	Specific Cond., Lab (us/cm)	Water Temp. (deg C)
3000200001I	11/28/2006	65	4.7	6.0	6.7	102	100	15.3
	3/5/2007	65	7.8	6.4	6.4	122	99	15.9
	7/9/2007	65	na	6.3	6.3	86	85	16.1
	11/5/2007	65	7.4	6.1	6.6	55	66	14.6
	5/27/2008	65	7.6	5.8	6.1	51	54	15.1
	3/16/2009	65	8.0	5.7	6.3	67	na	14.5
3000200001D	11/28/2006	209	2.2	7.8	8.0	152	150	16.8
	3/5/2007	209	0.8	8.1	8.0	128	150	16.6
	7/9/2007	209	0.7	8.1	7.9	157	150	17.5
	11/5/2007	209	0.4	8.1	8.0	158	150	16.8
	5/27/2008	209	0.7	8.0	8.0	155	150	17.5
	3/16/2009	140	0.3	7.9	7.9	147	na	15.9
300020000CH1	11/28/2006	67	3.9	6.9	7.2	144	150	15.1

**Allison Woods Groundwater Monitoring and Research Station
MW-1 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Hardness, non-carb diss fld. as CaCO3 (mg/l)	Hardness Total (mg/l as CaCO3)	Calcium Dissolved (mg/l as Ca)	Magnesium Dissolved (mg/l as Mg)	Potassium Dissolved (mg/l as K)	Sodium Dissolved (mg/l as Na)
3000200001I	11/28/2006	65			19	2.9	3.4	5.7
	3/5/2007	65			8.3	3.2	4.1	8.0
	7/9/2007	65			6.9	2.9	3.1	6.6
	11/5/2007	65			na	na	na	na
	5/27/2008	65			4.5	2.4	2.0	2.5
	3/16/2009	65			6	2.6	3.2	2.7
3000200001D	11/28/2006	209			20	4.3	4.5	5.2
	3/5/2007	209			21	4.4	4.3	5.1
	7/9/2007	209			20	4.2	4.3	4.9
	11/5/2007	209			na	na	na	na
	5/27/2008	209			21	4.6	4.4	5.2
	3/16/2009	140			20	4.3	4.4	4.9
300020000CH1	11/28/2006	67			16	4.9	3.6	6.4

**Allison Woods Groundwater Monitoring and Research Station
MW-1 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Sodium Adsorption Ratio	Sodium Percent	ANC, TIT. 4.5, L (mg/l as CaCO3)	ANC, Unfilt IT Field (mg/L as CaCO3)	Bicarbonate Dissolved (mg/L as HCO3)	Bromide Dissolved (mg/l as Br)
3000200001I	11/28/2006	65					38	
	3/5/2007	65					41	
	7/9/2007	65					32	
	11/5/2007	65					23	
	5/27/2008	65					17	
	3/16/2009	65					28	
3000200001D	11/28/2006	209					66	
	3/5/2007	209					71	
	7/9/2007	209					67	
	11/5/2007	209					65	
	5/27/2008	209					63	
	3/16/2009	140					65	
300020000CH1	11/28/2006	67					60	

**Allison Woods Groundwater Monitoring and Research Station
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Station ID	Sampling Date	Sampling Depth (ft)	Chloride Dissolved (mg/l as Cl)	Fluoride Dissolved (mg/l as F)	Silica Dissolved (mg/l as SiO2)	Sulfate Dissolved (mg/l as SO4)	Solids Dissolved (mg/l)	Solids, Residue at 180 deg C (mg/l)
3000200001I	11/28/2006	65	2.0	<0.40	17	<2.0	71	<2.5
	3/5/2007	65	2.6	<0.40	16	6.4	74	4.8
	7/9/2007	65	2.2	<0.40	16	4.7	64	<6.2
	11/5/2007	65	2.9	<0.40	16	3.8	54	<6.2
	5/27/2008	65	2.8	<0.40	16	2.0	48	<6.2
	3/16/2009	65	1.7	<0.40	20	4.0	58	na
3000200001D	11/28/2006	209	2.0	<0.40	27	8.0	103 J2	na
	3/5/2007	209	1.4	<0.40	25	8.2	108	3.0
	7/9/2007	209	1.3	<0.40	26	7.8	114	<6.2
	11/5/2007	209	1.8	<0.40	25	6.4	109	<6.2
	5/27/2008	209	2.1	<0.40	25	8.2	118	<6.2
	3/16/2009	140	1.1	<0.40	26	7.5	104	na
300020000CH1	11/28/2006	67	2.0	<0.40	30	10	106 J2	222

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Station ID	Sampling Date	Sampling Depth (ft)	Solids, sum of constituents diss. (mg/l)	Nitrogen Ammonia (mg/L as N)	Nitrogen Ammonia + Organic	Nitrogen Ammonia (mg/L as NH4)	Nitrogen dissolved (mg/l as N)	NO2 + NO3 diss. (mg/L as N)
3000200001I	11/28/2006	65				<0.02		0.22
	3/5/2007	65				<0.02		0.14
	7/9/2007	65				<0.02		0.17
	11/5/2007	65				na		0.16
	5/27/2008	65				na		0.04
	3/16/2009	65				na		<0.02
3000200001D	11/28/2006	209				<0.02		<0.02
	3/5/2007	209				<0.02		<0.02
	7/9/2007	209				<0.02		<0.02
	11/5/2007	209				na		<0.02
	5/27/2008	209				na		<0.02
	3/16/2009	140				na		<0.02
300020000CH1	11/28/2006	67				<0.02		<0.02

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Station ID	Sampling Date	Sampling Depth (ft)	Nitrogen Nitrite Dis (mg/l as N)	Nitrogen, Nitrate Dis (mg/L as N)	Nitrogen, Nitrate Dis (mg/L as NO3)	Nitrogen Nitrite Dis (mg/l as NO2)	Nitrogen Organic Dis (mg/l as N)	Phosphate Ortho, dis (mg/l as PO4)
3000200001I	11/28/2006	65					<0.2	
	3/5/2007	65					na	
	7/9/2007	65					na	
	11/5/2007	65					na	
	5/27/2008	65					na	
	3/16/2009	65					na	
3000200001D	11/28/2006	209					<0.2	
	3/5/2007	209					na	
	7/9/2007	209					na	
	11/5/2007	209					na	
	5/27/2008	209					na	
	3/16/2009	140					na	
300020000CH1	11/28/2006	67					<0.2	

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Station ID	Sampling Date	Sampling Depth (ft)	Phosphorus Ortho, dis (mg/l as P)	Carbon Dioxide, dis (mg/l as CO2)	Aluminum Dissolved (ug/l as Al)	Antimony Dissolved (ug/l as Sb)	Arsenic Dissolved (ug/l as As)	Barium Dissolved (ug/l as Ba)
3000200001I	11/28/2006	65	<0.02		<50		<5.0	36
	3/5/2007	65	na		<50		<5.0	95
	7/9/2007	65	na		<50		<5.0	68
	11/5/2007	65	na		na		na	na
	5/27/2008	65	na		na		<5.0	49
	3/16/2009	65	na		<50		<5.0	71
3000200001D	11/28/2006	209	na		<50		<5.0	52
	3/5/2007	209	na		<50		<5.0	50
	7/9/2007	209	na		<50		<5.0	48
	11/5/2007	209	na		na		na	na
	5/27/2008	209	na		<50		<5.0	49
	3/16/2009	140	na		<50		<2.0	48
300020000CH1	11/28/2006	67	0.02		<50		<5.0	74

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Station ID	Sampling Date	Sampling Depth (ft)	Beryllium Dissolved (ug/l as Be)	Boron Dissolved (ug/l as B)	Cadmium Dissolved (ug/l as Cd)	Chromium Dissolved (ug/l as Cr)	Cobalt Dissolved (ug/l as Co)	Copper Dissolved (ug/l as Cu)
3000200001I	11/28/2006	65			<2.0	<25		<2.0
	3/5/2007	65			<1.0	<10		<2.0
	7/9/2007	65			<1.0	<10		<2.0
	11/5/2007	65			na	na		<2.0
	5/27/2008	65			<1.0	<10		<2.0
	3/16/2009	65			<1.0	<10		2.5
3000200001D	11/28/2006	209			<2.0	<25		<2.0
	3/5/2007	209			<1.0	<10		<2.0
	7/9/2007	209			<1.0	<10		<2.0
	11/5/2007	209			na	na		<2.0
	5/27/2008	209			<1.0	<10		<2.0
	3/16/2009	140			<1.0	<10		<2.0
300020000CH1	11/28/2006	67			<2.0	<25		14

**Allison Woods Groundwater Monitoring and Research Station
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Station ID	Sampling Date	Sampling Depth (ft)	Iron Dissolved (ug/l as Fe)	Lead Dissolved (ug/l as Pb)	Manganese Dissolved (ug/l as Mn)	Mercury Dissolved (ug/l as Hg)	Molybdenum Dissolved (ug/l as Mo)	Nickel Dissolved (ug/l as Ni)
3000200001I	11/28/2006	65	<50	<10	17			<10
	3/5/2007	65	<50	<10	190			<10
	7/9/2007	65	<50	<10	97			<10
	11/5/2007	65	<50	na	na			na
	5/27/2008	65	<50	<10	33			<10
	3/16/2009	65	780	<10	49			<10
3000200001D	11/28/2006	209	<50	<10	<10			<10
	3/5/2007	209	240	<10	<10			<10
	7/9/2007	209	58	<10	<10			<10
	11/5/2007	209	120	na	na			na
	5/27/2008	209	<50	<10	<10			<10
	3/16/2009	140	<50	<10	<10			<10
300020000CH1	11/28/2006	67	3300	<10	31			<10

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Station ID	Sampling Date	Sampling Depth (ft)	Selenium Dissolved (ug/l as Se)	Silver Dissolved (ug/l as Ag)	Zinc Dissolved (ug/l as Zn)	Alpha count, 2 sigma wat dis as TH-230 (pci/l)	Alpha radio, wat dis as TH-230 (pci/l)	Beta, 2 sigma wat dis as CS-137 (pci/l)
3000200001I	11/28/2006	65	na	<5.0	12			
	3/5/2007	65	<5.0	<5.0	20			
	7/9/2007	65	<5.0	<5.0	<10			
	11/5/2007	65	na	na	<10			
	5/27/2008	65	<5.0	na	<10			
	3/16/2009	65	<5.0	<5.0	10			
3000200001D	11/28/2006	209	na	<5.0	97			
	3/5/2007	209	8.4	<5.0	120			
	7/9/2007	209	5.0	<5.0	110			
	11/5/2007	209	na	na	130			
	5/27/2008	209	<5.0	na	120			
	3/16/2009	140	<5.0	<5.0	84			
300020000CH1	11/28/2006	67	na	<5.0	14			

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Station ID	Sampling Date	Sampling Depth (ft)	Gross alpha, 2x cl, ss mdc, wat filt (pci/l)	Gross beta, diss as CS-137 (pci/l)	Gross Beta, 2x cl, ss mdc, wat filt (pci/l)	N-15 / N-14 Stable Isotope Ratio (per mil)	Radon 222 total (pci/l)	Radon 222, 2x cl, ss mdc, wat unfilt (pci/l)
3000200001I	11/28/2006	65						
	3/5/2007	65						
	7/9/2007	65						
	11/5/2007	65						
	5/27/2008	65						
	3/16/2009	65						
3000200001D	11/28/2006	209						
	3/5/2007	209						
	7/9/2007	209						
	11/5/2007	209						
	5/27/2008	209						
	3/16/2009	140						
300020000CH1	11/28/2006	67						

**Allison Woods Groundwater Monitoring and Research Station
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Station ID	Sampling Date	Sampling Depth (ft)	RN-222 2 sigma wat total (pci/l)	Uranium Nat, dissolv (ug/l as U)	Sulfide Dissolved (ug/L as S)	Total Organic Carbon total (mg/L)	Turbidity total (NTU)
3000200001I	11/28/2006	65			<0.10 J4	<2.0	<1.0
	3/5/2007	65			<0.1	<2.0	<1.0
	7/9/2007	65			<0.1	<2.0	<1.0
	11/5/2007	65			na	<2.0	<1.0
	5/27/2008	65			na		<1.0
	3/16/2009	65			<0.1	na	na
3000200001D	11/28/2006	209			<0.10 J4	<2.0	<1.0
	3/5/2007	209			<0.1	<2.0	<1.0
	7/9/2007	209			<0.1	<2.0	<1.0
	11/5/2007	209			na	<2.0	<1.0
	5/27/2008	209			na	na	<1.0
	3/16/2009	140			<0.1	na	na
300020000CH1	11/28/2006	67			<0.10 J4	<2	27

Water Quality Analysis
Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster

Station ID	Sampling Date	Sampling Depth (ft)	Dissolved Oxygen (mg/L)	pH WH, Field (standard units)	pH-Lab WH, Lab (standard units)	Specific Cond., Field (us/cm)	Specific Cond., Lab (us/cm)	Water Temp. (deg C)
3000200002S	11/28/2006	33	6.0	5.3	5.5	27	18	14.8
	3/5/2007	33	6.9	5.1	5.3	12	16	14.5
	7/10/2007	33	9.4	5.2	5.4	15	16	14.8
	11/5/2007	33	9.1	5.1	5.4	12	16	14.5
	5/27/2008	33	9.4	5.2		15	16	15.2
	3/17/2009	33	10.5	5.0	5.5	16	na	14.4
3000200002I	11/28/2006	62	1.7	6.6	7.4	137	160	15.6
	3/5/2007	62	na	7.2	7.3	174	160	16.5
	7/10/2007	62	1.9	7.0	7.1	151	150	16.2
	11/6/2007	62	na	6.9	7.1	136	140	14.6
	5/27/2008	62	na	na		na	140	na
	3/17/2009	62	3.8	7.2	7.5	140	na	14.5
3000200002D	11/28/2006	194	0.7	7.6	7.5	144	150	16.7
	3/5/2007	194	1.1	7.4	7.3	117	140	16.6
	7/9/2007	194	2.2	7.2	7.4	125	130	15.8
	11/5/2007	194	na	7.4	7.4	136	130	16.5
	5/27/2008	194	1.8	7.1	7.2	131	130	16.1
	3/16/2009	140	1.0	7.0	7.2	126	na	15.4

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Hardness, non-carb diss fld. as CaCO3 (mg/l)	Hardness Total (mg/l as CaCO3)	Calcium Dissolved (mg/l as Ca)	Magnesium Dissolved (mg/l as Mg)	Potassium Dissolved (mg/l as K)	Sodium Dissolved (mg/l as Na)
3000200002S	11/28/2006	33			0.47	0.65	1.2	0.69
	3/5/2007	33			0.48	0.63	1.1	0.66
	7/10/2007	33			0.52	0.66	1.2	0.60
	11/5/2007	33			0.50	0.68	1.2	0.67
	5/27/2008	33			0.55	0.66	1.2	0.72
	3/17/2009	33			0.50	0.61	1.2	0.64
3000200002I	11/28/2006	62			20	4.1	5.4	5.8
	3/5/2007	62			23	4.3	5.5	5.5
	7/10/2007	62			17	3.1	5.4	4.1
	11/5/2007	62						
	5/27/2008	62						
	3/17/2009	62			19	3.1	5.9	4.6
3000200002D	11/28/2006	194			18	4.6	5.0	5.0
	3/5/2007	194			17	4.3	4.7	4.6
	7/10/2007	194			16	4.0	4.7	4.3
	11/5/2007	194			17	4.4	4.9	4.7
	5/27/2008	194			17	4.3	4.9	4.6
	3/17/2009	140			16	4.1	4.8	4.4

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Sodium Adsorption Ratio	Sodium Percent	ANC, TIT. 4.5, L (mg/l as CaCO3)	ANC, Unfilt IT Field (mg/L as CaCO3)	Bicarbonate Dissolved (mg/L as HCO3)	Bromide Dissolved (mg/l as Br)
3000200002S	11/28/2006	33					4.0	
	3/5/2007	33					3.0	
	7/10/2007	33					4.8	
	11/5/2007	33					3.3	
	5/27/2008	33						
	3/17/2009	33					3.3	
3000200002I	11/28/2006	62					72	
	3/5/2007	62					79	
	7/10/2007	62					60	
	11/5/2007	62					55	
	5/27/2008	62						
	3/17/2009	62					58	
3000200002D	11/28/2006	194					68	
	3/5/2007	194					62	
	7/10/2007	194					58	
	11/5/2007	194					56	
	5/27/2008	194					52	
	3/17/2009	140					54	

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Chloride Dissolved (mg/l as Cl)	Fluoride Dissolved (mg/l as F)	Silica Dissolved (mg/l as SiO ₂)	Sulfate Dissolved (mg/l as SO ₄)	Solids Dissolved (mg/l)	Solids, Residue at 180 deg C (mg/l)
3000200002S	11/28/2006	33	1.0	<0.40	8.0	<2	<10 J2	5.2
	3/5/2007	33	1.1	<0.40	8.0	<2	22	<2.5
	7/10/2007	33	1.0	<0.40	7.4	<2	18 J2	<6.2
	11/5/2007	33	1.6	<0.40	7.4	6.3	14	<6.2
	5/27/2008	33			7.7		30	<6.2
	3/17/2009	33	<1.0	<0.40	7.8	<2	30	na
3000200002I	11/28/2006	62	1.0	<0.40	20	9.0	114 J2	3.8
	3/5/2007	62	1.2	<0.40	20	9.4	122	<2.5
	7/10/2007	62	1.3	<0.40	21	8.3	101	<6.2
	11/5/2007	62	1.8	<0.40	21	7.7	99	<6.2
	5/27/2008	62			24		110	
	3/17/2009	62	1.1	<0.40	23	8.2	102	na
3000200002D	11/28/2006	194	1.0	<0.40	29	7.0	108 J2	2.8
	3/5/2007	194	1.2	<0.40	26	8.0	111	6.0
	7/10/2007	194	1.2	<0.40	27	6.5	107	<6.2
	11/5/2007	194	1.6	<0.40	26	6.6	97	<6.2
	5/27/2008	194	1.8	<0.40	27	7.6	98	<12
	3/17/2009	140	1.0	<0.40	27	7.9	57	na

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Solids, sum of constituents diss. (mg/l)	Nitrogen Ammonia (mg/L as N)	Nitrogen Ammonia + Organic	Nitrogen Ammonia (mg/L as NH4)	Nitrogen dissolved (mg/l as N)	NO2 + NO3 diss. (mg/L as N)
3000200002S	11/28/2006	33				<0.02		<0.02
	3/5/2007	33				<0.02		0.02
	7/10/2007	33				<0.02		0.03
	11/5/2007	33				na		0.03
	5/27/2008	33				na		0.02
	3/17/2009	33				na		0.02
3000200002I	11/28/2006	62				<0.02		<0.02
	3/5/2007	62				<0.02		<0.02
	7/10/2007	62				<0.02		<0.02
	11/5/2007	62				na		0.05
	5/27/2008	62				na		0.02
	3/17/2009	62				na		<0.02
3000200002D	11/28/2006	194				<0.02		<0.02
	3/5/2007	194				<0.02		<0.02
	7/10/2007	194				<0.02		<0.02
	11/5/2007	194				na		<0.02
	5/27/2008	194				na		0.07
	3/17/2009	140				na		<0.02

**Allison Woods Groundwater Monitoring and Research Station
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Station ID	Sampling Date	Sampling Depth (ft)	Nitrogen Nitrite Dis (mg/l as N)	Nitrogen, Nitrate Dis (mg/L as N)	Nitrogen, Nitrate Dis (mg/L as NO3)	Nitrogen Nitrite Dis (mg/l as NO2)	Nitrogen Organic Dis (mg/l as N)	Phosphate Ortho, dis (mg/l as PO4)
3000200002S	11/28/2006	33					<0.2	
	3/5/2007	33					na	
	7/10/2007	33					na	
	11/5/2007	33					na	
	5/27/2008	33					na	
	3/17/2009	33					na	
3000200002I	11/28/2006	62					<0.2	
	3/5/2007	62					na	
	7/10/2007	62					na	
	11/5/2007	62					na	
	5/27/2008	62					na	
	3/17/2009	62					na	
3000200002D	11/28/2006	194					<0.2	
	3/5/2007	194					na	
	7/10/2007	194					na	
	11/5/2007	194					na	
	5/27/2008	194					na	
	3/17/2009	140					na	

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Phosphorus Ortho, dis (mg/l as P)	Carbon Dioxide, dis (mg/l as CO2)	Aluminum Dissolved (ug/l as Al)	Antimony Dissolved (ug/l as Sb)	Arsenic Dissolved (ug/l as As)	Barium Dissolved (ug/l as Ba)
3000200002S	11/28/2006	33	<0.02		<50		<5.0	37
	3/5/2007	33	na		<50		<5.0	34
	7/10/2007	33	na		<50		<5.0	35
	11/5/2007	33	na		<50		<5.0	37
	5/27/2008	33	na		<50		<5.0	35
	3/17/2009	33	na		<50		<2.0	35
3000200002I	11/28/2006	62	0.02		<50		<5.0	58
	3/5/2007	62	na		<50		<5.0	59
	7/10/2007	62	na		<50		<5.0	58
	11/5/2007	62	na		na		<5.0	na
	5/27/2008	62	na				<5.0	
	3/17/2009	62	na		<50		<2.0	64
3000200002D	11/28/2006	194	<0.02		<50		<5.0	91
	3/5/2007	194	na		<50		<5.0	88
	7/10/2007	194	na		<50		<5.0	90
	11/5/2007	194	na		<50		<5.0	88
	5/27/2008	194	na		<50		<5.0	91
	3/17/2009	140	na		<50		<2.0	89

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Beryllium Dissolved (ug/l as Be)	Boron Dissolved (ug/l as B)	Cadmium Dissolved (ug/l as Cd)	Chromium Dissolved (ug/l as Cr)	Cobalt Dissolved (ug/l as Co)	Copper Dissolved (ug/l as Cu)
3000200002S	11/28/2006	33			<2.0	<25		<2.0
	3/5/2007	33			<1.0	<10		<2.0
	7/10/2007	33			<1.0	<10		<2.0
	11/5/2007	33			<1.0	<10		<2.0
	5/27/2008	33			<1.0	<10		<2.0
	3/17/2009	33			<1.0	<10		<2.0
3000200002I	11/28/2006	62			<2.0	<25		<2.0
	3/5/2007	62			<1.0	<10		<2.0
	7/10/2007	62			<1.0	<10		<2.0
	11/5/2007	62			na	na		na
	5/27/2008	62						
	3/17/2009	62			<1.0	<10		<2.0
3000200002D	11/28/2006	194			<2.0	<25		<2.0
	3/5/2007	194			<1.0	<10		<2.0
	7/10/2007	194			<1.0	<10		<2.0
	11/5/2007	194			<1.0	<10		<2.0
	5/27/2008	194			<1.0	<10		<2.0
	3/17/2009	140			<1.0	<10		<2.0

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Iron Dissolved (ug/l as Fe)	Lead Dissolved (ug/l as Pb)	Manganese Dissolved (ug/l as Mn)	Mercury Dissolved (ug/l as Hg)	Molybdenum Dissolved (ug/l as Mo)	Nickel Dissolved (ug/l as Ni)
3000200002S	11/28/2006	33	<50	<10	22			<10
	3/5/2007	33	<50	<10	16			<10
	7/10/2007	33	<50	<10	11			<10
	11/5/2007	33	<50	<10	<10			<10
	5/27/2008	33	<50	<10	<10			<10
	3/17/2009	33	<50	<10	<10			<10
3000200002I	11/28/2006	62	<50	<10	150			<10
	3/5/2007	62	<50	<10	160			<10
	7/10/2007	62	<50	<10	140			<10
	11/5/2007	62	na	na	na			na
	5/27/2008	62						
	3/17/2009	62	<50	<10	350			<10
3000200002D	11/28/2006	194	<50	<10	10			<10
	3/5/2007	194	<50	<10	10			<10
	7/10/2007	194	<50	<10	10			<10
	11/5/2007	194	<50	<10	<10			<10
	5/27/2008	194	<50	<10	<10			<10
	3/17/2009	140	<10	<10	<10			<10

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Selenium Dissolved (ug/l as Se)	Silver Dissolved (ug/l as Ag)	Zinc Dissolved (ug/l as Zn)	Alpha count, 2 sigma wat dis as TH-230 (pci/l)	Alpha radio, wat dis as TH-230 (pci/l)	Beta, 2 sigma wat dis as CS-137 (pci/l)
3000200002S	11/28/2006	33	na	<5.0	<10			
	3/5/2007	33	<5.0	<5.0	<10			
	7/10/2007	33	<5.0	<5.0	12			
	11/5/2007	33	<5.0	<5.0	<10			
	5/27/2008	33	<5.0	<5.0	<10			
	3/17/2009	33	<5.0	<5.0	<10			
3000200002I	11/28/2006	62	na	<5.0	<10			
	3/5/2007	62	<5.0	<5.0	11			
	7/10/2007	62	<5.0	<5.0	26			
	11/5/2007	62	na	na	na			
	5/27/2008	62						
	3/17/2009	62	<5.0	<5.0	<10			
3000200002D	11/28/2006	194	na	<5.0	65			
	3/5/2007	194	<5.0	<5.0	100			
	7/10/2007	194	<5.0	<5.0	53			
	11/5/2007	194	<5.0	<5.0	91			
	5/27/2008	194	<5.0	na	78			
	3/17/2009	140	<5.0	<5.0	130			

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Gross alpha, 2x cl, ss mdc, wat filt (pci/l)	Gross beta, diss as CS-137 (pci/l)	Gross Beta, 2x cl, ss mdc, wat filt (pci/l)	N-15 / N-14 Stable Isotope Ratio (per mil)	Radon 222 total (pci/l)	Radon 222, 2x cl, ss mdc, wat unfilt (pci/l)
3000200002S	11/28/2006	33						
	3/5/2007	33						
	7/10/2007	33						
	11/5/2007	33						
	5/27/2008	33						
	3/17/2009	33						
3000200002I	11/28/2006	62						
	3/5/2007	62						
	7/10/2007	62						
	11/5/2007	62						
	5/27/2008	62						
	3/17/2009	62						
3000200002D	11/28/2006	194						
	3/5/2007	194						
	7/10/2007	194						
	11/5/2007	194						
	5/27/2008	194						
	3/17/2009	140						

**Allison Woods Groundwater Monitoring and Research Station
MW-2 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	RN-222 2 sigma wat total (pci/l)	Uranium Nat, dissolv (ug/l as U)	Sulfide Dissolved (ug/L as S)	Total Organic Carbon total (mg/L)	Turbidity total (NTU)
3000200002S	11/28/2006	33			<0.10 J4	<2.0	<1.0
	3/5/2007	33			<0.10	<2.0	<1.0
	7/10/2007	33			<0.10 J6	<2.0	<1.0
	11/5/2007	33			na	<2.0	<1.0
	5/27/2008	33			na	na	<1.0
	3/17/2009	33			<0.10	na	na
3000200002I	11/28/2006	62			<0.10	<2.0	6.4
	3/5/2007	62			<0.10	<2.0	<1.0
	7/10/2007	62			<0.10	<2.0	1.7
	11/5/2007	62			na	<2.0	1.2
	5/27/2008	62			na	na	13
	3/17/2009	62			<0.1	na	na
3000200002D	11/28/2006	194			<0.10	<2.0	<1.0
	3/5/2007	194			<0.10	<2.0	<1.0
	7/10/2007	194			<0.10	<2.0	<1.0
	11/5/2007	194			na	<2.0	<1.0
	5/27/2008	194			na	na	<1.0
	3/17/2009	140			<0.10	na	na

Water Quality Analysis
Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster

Station ID	Sampling Date	Sampling Depth (ft)	Dissolved Oxygen (mg/L)	pH WH, Field (standard units)	pH-Lab WH, Lab (standard units)	Specific Cond., Field (us/cm)	Specific Cond., Lab (us/cm)	Water Temp. (deg C)
3000200003S	11/29/2006	15	6.0	5.3	5.3	51	50	14.8
	3/13/2007	15	2.8	5.2	5.5	43	51	12.7
	7/11/2007	15	2.4	5.2	5.6	50	53	14.4
	11/6/2007	15	na	5.7	5.6	59	55	15.2
	5/28/2008	15	3.4	5.1	5.5	56	56	13.2
	3/23/2009	15	5.3	4.9	5.2	53	na	12.5
3000200003I	11/29/2006	34	5.1	6.0	6.0	83	83	14.3
	3/13/2007	34	4.6	6.2	6.2	66	78	14.6
	7/11/2007	34	5.9	5.8	6.2	79	80	14.0
	11/6/2007	34	5.6	6.0	6.2	51	79	14.2
	5/28/2008	34	na	5.7	6.2	83	81	14.2
	3/23/2009	34	5.1	5.6	6.0	82	na	14.4
3000200003D	11/29/2006	88	0.1	9.0	9.0	145	140	15.8
	3/13/2007	88	0.5	8.7	8.2	125	150	15.2
	7/11/2007	88	na	8.5	8.3	136	150	17.9
	11/6/2007	88	0.1	8.6	8.4	154	150	15.6
	5/28/2008	88	0.2	8.5	8.3	153	150	16.5
	3/23/2009	88	0.2	8.2	8.2	149	na	16.4

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Hardness, non-carb diss fld. as CaCO3 (mg/l)	Hardness Total (mg/l as CaCO3)	Calcium Dissolved (mg/l as Ca)	Magnesium Dissolved (mg/l as Mg)	Potassium Dissolved (mg/l as K)	Sodium Dissolved (mg/l as Na)
3000200003S	11/28/2006	33			0.8	0.97	0.80	1.2
	3/5/2007	33			4.0	2.6	0.98	1.9
	7/10/2007	33			4.1	2.6	1.0	1.9
	11/5/2007	33			4.4	2.8	1.2	2.1
	5/27/2008	33			4.2	2.7	1.1	1.9
	3/17/2009	33			4.1	2.5	1.0	1.8
3000200003I	11/28/2006	62			<0.10	<0.10	<0.10	<0.10
	3/5/2007	62			6.5	2.7	3.0	4.0
	7/10/2007	62			6.8	2.8	2.5	3.9
	11/5/2007	62			7.3	3.0	2.5	4.0
	5/27/2008	62			7.5	3.1	2.3	4.1
	3/17/2009	62			7.3	2.9	2.0	3.7
3000200003D	11/28/2006	194			6.5	2.8	3.7	4.2
	3/5/2007	194			19	2.2	4.6	10
	7/10/2007	194			21	2.6	3.7	7.8
	11/5/2007	194			21	2.5	4.3	9.4
	5/27/2008	194			20	2.4	4.1	10
	3/17/2009	140			22	2.6	3.5	7.7

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Sodium Adsorption Ratio	Sodium Percent	ANC, TIT. 4.5, L (mg/l as CaCO3)	ANC, Unfilt IT Field (mg/L as CaCO3)	Bicarbonate Dissolved (mg/L as HCO3)	Bromide Dissolved (mg/l as Br)
3000200003S	11/28/2006	33					12	
	3/5/2007	33					16	
	7/10/2007	33					14	
	11/5/2007	33					13	
	5/27/2008	33					12	
	3/17/2009	33					8.5	
3000200003I	11/28/2006	62					25	
	3/5/2007	62					na	
	7/10/2007	62					24	
	11/5/2007	62					23	
	5/27/2008	62					23	
	3/17/2009	62					22	
3000200003D	11/28/2006	194					52	
	3/5/2007	194					34	
	7/10/2007	194					70	
	11/5/2007	194					62	
	5/27/2008	194					64	
	3/17/2009	140					64	

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Chloride Dissolved (mg/l as Cl)	Fluoride Dissolved (mg/l as F)	Silica Dissolved (mg/l as SiO2)	Sulfate Dissolved (mg/l as SO4)	Solids Dissolved (mg/l)	Solids, Residue at 180 deg C (mg/l)
3000200003S	11/28/2006	33	5.0	<0.40	14	<2.0	32	<2.5
	3/5/2007	33	4.1	<0.40	13	<2.0	44	<5.0
	7/10/2007	33	4.0	<0.40	13	<2.0	55	10
	11/5/2007	33	2.5	<0.40	13	<2.0	50	29
	5/27/2008	33	4.5	<0.40	13	<2.0	48	<6.2
	3/17/2009	33	3.6	<0.40	12	<2.0	42	na
3000200003I	11/28/2006	62	1.0	<0.40	23	7.0	67	<2.5
	3/5/2007	62	3.3	<0.40	22	<2.0	72	<2.5
	7/10/2007	62	3.3	<0.40	22	<2.0	67	<6.2
	11/5/2007	62	<1	<0.40	21	<2.0	70	<6.2
	5/27/2008	62	3.6	<0.40	22	<2.0	72	<6.2
	3/17/2009	62	2.8	<0.40	22	<2.0	71	na
3000200003D	11/28/2006	194	1.0	<0.40	24	8.0	101	<2.5
	3/5/2007	194	1.1	<0.40	26	6.4	92	<2.5
	7/10/2007	194	1.2	<0.40	34	6.3	115	13
	11/5/2007	194	1.4	<0.40	30	<2.0	110	<6.2
	5/27/2008	194	2.0	<0.40	29	7.0	115	<6.2
	3/17/2009	140	1.1	<0.40	34	6.2	120	na

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Solids, sum of constituents diss. (mg/l)	Nitrogen Ammonia (mg/L as N)	Nitrogen Ammonia + Organic	Nitrogen Ammonia (mg/L as NH4)	Nitrogen dissolved (mg/l as N)	NO2 + NO3 diss. (mg/L as N)
3000200003S	11/28/2006	33				<0.02		0.23
	3/5/2007	33				<0.02		0.44
	7/10/2007	33				<0.02		0.69
	11/5/2007	33				na		0.83
	5/27/2008	33				na		0.94
	3/17/2009	33				na		1.2
3000200003I	11/28/2006	62				<0.02		2.1
	3/5/2007	62				<0.02		2.1
	7/10/2007	62				<0.02		2.3
	11/5/2007	62				na		2.3
	5/27/2008	62				na		2.4
	3/17/2009	62				na		2.6
3000200003D	11/28/2006	194				<0.02		<0.02
	3/5/2007	194				<0.02		<0.02
	7/10/2007	194				<0.02		<0.02
	11/5/2007	194				na		0.02
	5/27/2008	194				na		<0.02
	3/17/2009	140				na		<0.02

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Nitrogen Nitrite Dis (mg/l as N)	Nitrogen, Nitrate Dis (mg/L as N)	Nitrogen, Nitrate Dis (mg/L as NO3)	Nitrogen Nitrite Dis (mg/l as NO2)	Nitrogen Organic Dis (mg/l as N)	Phosphate Ortho, dis (mg/l as PO4)
3000200003S	11/28/2006	33					<0.2	
	3/5/2007	33					na	
	7/10/2007	33					na	
	11/5/2007	33					na	
	5/27/2008	33					na	
	3/17/2009	33					na	
3000200003I	11/28/2006	62					<0.2	
	3/5/2007	62					na	
	7/10/2007	62					na	
	11/5/2007	62					na	
	5/27/2008	62					na	
	3/17/2009	62					na	
3000200003D	11/28/2006	194					<0.2	
	3/5/2007	194					na	
	7/10/2007	194					na	
	11/5/2007	194					na	
	5/27/2008	194					na	
	3/17/2009	140					na	

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Phosphorus Ortho, dis (mg/l as P)	Carbon Dioxide, dis (mg/l as CO2)	Aluminum Dissolved (ug/l as Al)	Antimony Dissolved (ug/l as Sb)	Arsenic Dissolved (ug/l as As)	Barium Dissolved (ug/l as Ba)
3000200003S	11/28/2006	33	<0.02		<50		<5.0	19
	3/5/2007	33	na		<50		<5	45
	7/10/2007	33	na		<50		<5.0	44
	11/5/2007	33	na		<50		<5.0	49
	5/27/2008	33	na		<50		<5.0	44
	3/17/2009	33	na		<50		<2.0	41
3000200003I	11/28/2006	62	0.02		<50		<5.0	<10
	3/5/2007	62	na		<50		<5.0	83
	7/10/2007	62	na		<50		<5.0	77
	11/5/2007	62	na		<50		<5.0	78
	5/27/2008	62	na		<50		<5.0	77
	3/17/2009	62	na		<50		<2.0	69
3000200003D	11/28/2006	194	0.02		<50		<5.0	94
	3/5/2007	194	na		<50		<5.0	17
	7/10/2007	194	na		<50		<5.0	39
	11/5/2007	194	na		<50		<5.0	28
	5/27/2008	194	na		<50		<5.0	27
	3/17/2009	140	na		<50		<2.0	41

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Beryllium Dissolved (ug/l as Be)	Boron Dissolved (ug/l as B)	Cadmium Dissolved (ug/l as Cd)	Chromium Dissolved (ug/l as Cr)	Cobalt Dissolved (ug/l as Co)	Copper Dissolved (ug/l as Cu)
3000200003S	11/28/2006	33			<2.0	<25		<2.0
	3/5/2007	33			<1.0	<10		<2.0
	7/10/2007	33			<1.0	<10		<2.0
	11/5/2007	33			<1.0	<10		<2.0
	5/27/2008	33			<1.0	<10		<2.0
	3/17/2009	33			<1.0	<10		<2.0
3000200003I	11/28/2006	62			<2.0	<25		<2.0
	3/5/2007	62			<1.0	<10		<2.0
	7/10/2007	62			<1.0	<10		<2.0
	11/5/2007	62			<1.0	<10		<2.0
	5/27/2008	62			<1.0	<10		<2.0
	3/17/2009	62			<1.0	<10		<2.0
3000200003D	11/28/2006	194			<2.0	<25		<2.0
	3/5/2007	194			<1.0	<10		<2.0
	7/10/2007	194			<1.0	<10		<2.0
	11/5/2007	194			<1.0	<10		<2.0
	5/27/2008	194			<1.0	<10		<2.0
	3/17/2009	140			<1.0	<10		<2.0

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Iron Dissolved (ug/l as Fe)	Lead Dissolved (ug/l as Pb)	Manganese Dissolved (ug/l as Mn)	Mercury Dissolved (ug/l as Hg)	Molybdenum Dissolved (ug/l as Mo)	Nickel Dissolved (ug/l as Ni)
3000200003S	11/28/2006	33	<50	<10	<10			<10
	3/5/2007	33	<50	<10	16			<10
	7/10/2007	33	<50	<10	16			<10
	11/5/2007	33	<50	<10	11			<10
	5/27/2008	33	<50	<10	<10			<10
	3/17/2009	33	<50	<10	<10			<10
3000200003I	11/28/2006	62	<50	<10	<10			<10
	3/5/2007	62	<50	<10	35			<10
	7/10/2007	62	<50	<10	21			<10
	11/5/2007	62	<50	<10	11			<10
	5/27/2008	62	<50	<10	<10			<10
	3/17/2009	62	<50	<10	<10			<10
3000200003D	11/28/2006	194	<50	<10	53			<10
	3/5/2007	194	<50	<10	<10			<10
	7/10/2007	194	<50	<10	24			<10
	11/5/2007	194	<50	<10	12			<10
	5/27/2008	194	<50	<10	11			<10
	3/17/2009	140	<50	<10	26			<10

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Selenium Dissolved (ug/l as Se)	Silver Dissolved (ug/l as Ag)	Zinc Dissolved (ug/l as Zn)	Alpha count, 2 sigma wat dis as TH-230 (pci/l)	Alpha radio, wat dis as TH-230 (pci/l)	Beta, 2 sigma wat dis as CS-137 (pci/l)
3000200003S	11/28/2006	33	na	<5.0	<10			
	3/5/2007	33	<5.0	<5.0	<10			
	7/10/2007	33	<5.0	<5.0	<10			
	11/5/2007	33	<5.0	<5.0	<10			
	5/27/2008	33	<5.0	na	<10			
	3/17/2009	33	<5.0	<5.0	<10			
3000200003I	11/28/2006	62	na	<5.0	<10			
	3/5/2007	62	<5.0	<5.0	<10			
	7/10/2007	62	<5.0	<5.0	<10			
	11/5/2007	62	<5.0	<5.0	<10			
	5/27/2008	62	<5.0	na	<10			
	3/17/2009	62	<5.0	<5.0	<10			
3000200003D	11/28/2006	194	na	<5.0	<10			
	3/5/2007	194	<5.0	<5.0	42			
	7/10/2007	194	<5.0	<5.0	13			
	11/5/2007	194	<5.0	<5.0	21			
	5/27/2008	194	<5.0	na	<10			
	3/17/2009	140	<5.0	<5.0	<10			

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Gross alpha, 2x cl, ss mdc, wat filt (pci/l)	Gross beta, diss as CS-137 (pci/l)	Gross Beta, 2x cl, ss mdc, wat filt (pci/l)	N-15 / N-14 Stable Isotope Ratio (per mil)	Radon 222 total (pci/l)	Radon 222, 2x cl, ss mdc, wat unfilt (pci/l)
3000200003S	11/28/2006	33						
	3/5/2007	33						
	7/10/2007	33						
	11/5/2007	33						
	5/27/2008	33						
	3/17/2009	33						
3000200003I	11/28/2006	62						
	3/5/2007	62						
	7/10/2007	62						
	11/5/2007	62						
	5/27/2008	62						
	3/17/2009	62						
3000200003D	11/28/2006	194						
	3/5/2007	194						
	7/10/2007	194						
	11/5/2007	194						
	5/27/2008	194						
	3/17/2009	140						

**Allison Woods Groundwater Monitoring and Research Station
MW-3 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	RN-222 2 sigma wat total (pci/l)	Uranium Nat, dissolv (ug/l as U)	Sulfide Dissolved (ug/L as S)	Total Organic Carbon total (mg/L)	Turbidity total (NTU)
3000200003S	11/28/2006	33			<0.10	<2	<1
	3/5/2007	33			<0.1	<2	3.2
	7/10/2007	33			na	<2	4.8
	11/5/2007	33			<0.10 J4	<2	8.3
	5/27/2008	33			na	na	5.1
	3/17/2009	33			<0.1	na	na
3000200003I	11/28/2006	62			<0.10	<2	<1
	3/5/2007	62			<0.1	<2	<1
	7/10/2007	62			<0.1	<2	<1
	11/5/2007	62			na	<2	<1
	5/27/2008	62			na	na	<1
	3/17/2009	62			<0.1	na	na
3000200003D	11/28/2006	194			<0.10	<2	<1
	3/5/2007	194			<0.1	<2	1.7
	7/10/2007	194			<0.1	<2	<1
	11/5/2007	194			na	<2	1.2
	5/27/2008	194			na	na	2.0
	3/17/2009	140			<0.1	na	na

Water Quality Analysis
Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster

Station ID	Sampling Date	Sampling Depth (ft)	Dissolved Oxygen (mg/L)	pH WH, Field (standard units)	pH-Lab WH, Lab (standard units)	Specific Cond., Field (us/cm)	Specific Cond., Lab (us/cm)	Water Temp. (deg C)
3000200004S	11/29/2006	22	2.6	4.8	5.8	19	22	15.5
	3/6/2007	22	5.5	5.3	5.8	15	20	14.2
	7/10/2007	22	8.4	5.2	5.6	19	20	14.6
	11/6/2007	22	8.6	5.4	5.6	18	20	15.4
	5/28/2008	22	8.0	5.0	5.5	19	19	13.9
	3/17/2009	22	8.0	4.9	5.7	19	na	14.0
3000200004I	11/29/2006	39	na	6.1	6.7	65	67	14.4
	3/6/2007	39	8.6	6.0	6.6	58	58	14.3
	7/10/2007	39	10.6	6.4	6.6	64	67	14.4
	11/6/2007	39	7.5	6.5	6.7	73	75	14.4
	5/28/2008	39	6.9	6.3	6.5	73	73	14.6
	3/17/2009	39	9.7	6.1	6.5	70	na	14.5
3000200004D	11/29/2006	121	0.1	8.4	8.0	134	140	16.4
	3/6/2007	121	0.4	8.3	8.0	112	130	16.5
	7/10/2007	121	0.3	8.3	8.2	132	140	15.9
	11/6/2007	121	0.1	8.3	8.2	140	140	15.7
	5/28/2008	121	0.1	8.2	8.0	139	140	15.7
	3/17/2009	121	0.2	7.9	8.1	141	na	15.8
AWCH-4	7/10/2007	88	2.6	8.0	8.1	143	140	15.4

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Hardness, non-carb diss fld. as CaCO3 (mg/l)	Hardness Total (mg/l as CaCO3)	Calcium Dissolved (mg/l as Ca)	Magnesium Dissolved (mg/l as Mg)	Potassium Dissolved (mg/l as K)	Sodium Dissolved (mg/l as Na)
3000200004S	11/29/2006	22			7.3	2.3	1.5	3.6
	3/6/2007	22			0.76	0.93	0.71	1.1
	7/10/2007	22			0.77	0.90	0.72	1.1
	11/6/2007	22			0.87	0.98	0.85	1.3
	5/28/2008	22			0.75	0.95	0.71	1.2
	3/17/2009	22			0.72	0.89	0.68	1.2
3000200004I	11/29/2006	39			8.3	3.2	4.2	10
	3/6/2007	39			6.0	2.0	1.4	3.1
	7/10/2007	39			7.0	2.2	1.5	3.4
	11/6/2007	39			9.0	2.6	1.7	4.0
	5/28/2008	39			8.0	2.4	1.5	3.8
	3/17/2009	39			7.5	2.2	1.5	3.5
3000200004D	11/29/2006	121			15	1.8	5.3	14
	3/6/2007	121			19	3.0	3.4	5.5
	7/10/2007	121			19	3.1	3.4	5.4
	11/6/2007	121			21	3.4	3.8	5.7
	5/28/2008	121			19	3.2	3.5	5.2
	3/17/2009	121			19	3.3	3.7	5.2
AWCH-4	7/10/2007	88			20	3.1	3.5	5.2

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Sodium Adsorption Ratio	Sodium Percent	ANC, TIT. 4.5, L (mg/l as CaCO3)	ANC, Unfilt IT Field (mg/L as CaCO3)	Bicarbonate Dissolved (mg/L as HCO3)	Bromide Dissolved (mg/l as Br)
3000200004S	11/29/2006	22					6.0	
	3/6/2007	22					2.0	
	7/10/2007	22					5.9	
	11/6/2007	22					5.3	
	5/28/2008	22					4.3	
	3/17/2009	22					5.8	
3000200004I	11/29/2006	39					31	
	3/6/2007	39					14	
	7/10/2007	39					31	
	11/6/2007	39					33	
	5/28/2008	39					31	
	3/17/2009	39					30	
3000200004D	11/29/2006	121					62	
	3/6/2007	121					31	
	7/10/2007	121					61	
	11/6/2007	121					61	
	5/28/2008	121					57	
	3/17/2009	121					59	
AWCH-4	7/10/2007	88					64	

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Chloride Dissolved (mg/l as Cl)	Fluoride Dissolved (mg/l as F)	Silica Dissolved (mg/l as SiO2)	Sulfate Dissolved (mg/l as SO4)	Solids Dissolved (mg/l)	Solids, Residue at 180 deg C (mg/l)
3000200004S	11/29/2006	22	<1	<0.40	10	<2.0	18	<2.5
	3/6/2007	22	1.3	<0.40	9.0	<2.0	27	<2.5
	7/10/2007	22	1.0	<0.40	9.2	<2.0	21	<6.2
	11/6/2007	22	4.3	<0.40	9.4	<2.0	27	8.0
	5/28/2008	22	1.6	<0.40	9.2	<2.0	24	14
	3/17/2009	22	1.0	<0.40	9.6	<2.0	20	ns
3000200004I	11/29/2006	39	1.0	<0.40	26	2.0	60	<2.5
	3/6/2007	39	1.2	<0.40	23	<2.0	58	<2.5
	7/10/2007	39	1.1	<0.40	25	<2.0	62	<6.2
	11/6/2007	39	1.3	<0.40	24	<2.0	70	<6.2
	5/28/2008	39	1.7	<0.40	25	<2.0	68	<12
	3/17/2009	39	1	<0.40	25	<2.0	62	na
3000200004D	11/29/2006	121	3.0	<0.40	28	9.0	98	<2.5
	3/6/2007	121	1.1	<0.40	26	7.0	100	<2.5
	7/10/2007	121	1.2	<0.40	27	6.9	109	<6.2
	11/6/2007	121	1.7	<0.40	26	<2.0	119	<6.2
	5/28/2008	121	2.0	<0.40	27	7.6	110	<6.2
	3/17/2009	121	1.0	<0.40	27	7.1	270	na
AWCH-4	7/10/2007	88	1.2	<0.4	26	7.5	105	<6.2

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Solids, sum of constituents diss. (mg/l)	Nitrogen Ammonia (mg/L as N)	Nitrogen Ammonia + Organic	Nitrogen Ammonia (mg/L as NH4)	Nitrogen dissolved (mg/l as N)	NO2 + NO3 diss. (mg/L as N)
3000200004S	11/29/2006	22				<0.02		<0.02
	3/6/2007	22				<0.02		<0.02
	7/10/2007	22				<0.02		<0.02
	11/6/2007	22				na		0.02
	5/28/2008	22				na		<0.02
	3/17/2009	22				na		<0.02
3000200004I	11/29/2006	39				<0.02		<0.02
	3/6/2007	39				<0.02		<0.02
	7/10/2007	39				<0.02		<0.02
	11/6/2007	39				na		0.03
	5/28/2008	39				na		0.09
	3/17/2009	39				na		<0.02
3000200004D	11/29/2006	121				<0.02		<0.02
	3/6/2007	121				<0.02		<0.02
	7/10/2007	121				<0.02		0.02
	11/6/2007	121				na		<0.02
	5/28/2008	121				na		<0.02
	3/17/2009	121				na		<0.02
AWCH-4	7/10/2007	88				<0.02		0.02

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Nitrogen Nitrite Dis (mg/l as N)	Nitrogen, Nitrate Dis (mg/L as N)	Nitrogen, Nitrate Dis (mg/L as NO3)	Nitrogen Nitrite Dis (mg/l as NO2)	Nitrogen Organic Dis (mg/l as N)	Phosphate Ortho, dis (mg/l as PO4)
3000200004S	11/29/2006	22					<0.2	
	3/6/2007	22					na	
	7/10/2007	22					na	
	11/6/2007	22					na	
	5/28/2008	22					na	
	3/17/2009	22					na	
3000200004I	11/29/2006	39					<0.2	
	3/6/2007	39					na	
	7/10/2007	39					na	
	11/6/2007	39					na	
	5/28/2008	39					na	
	3/17/2009	39					na	
3000200004D	11/29/2006	121					<0.2	
	3/6/2007	121					na	
	7/10/2007	121					na	
	11/6/2007	121					na	
	5/28/2008	121					na	
	3/17/2009	121					na	
AWCH-4	7/10/2007	88					na	

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Phosphorus Ortho, dis (mg/l as P)	Carbon Dioxide, dis (mg/l as CO2)	Aluminum Dissolved (ug/l as Al)	Antimony Dissolved (ug/l as Sb)	Arsenic Dissolved (ug/l as As)	Barium Dissolved (ug/l as Ba)
3000200004S	11/29/2006	22	<0.02		<50		<5.0	25
	3/6/2007	22	na		<50		<5.0	17
	7/10/2007	22	na		<50		<5.0	16
	11/6/2007	22	na		<50		<5.0	18
	5/28/2008	22	na		<50		<5.0	17
	3/17/2009	22	na		<50		<2.0	17
3000200004I	11/29/2006	39	0.03		<50		<5.0	98
	3/6/2007	39	na		<50		<5.0	24
	7/10/2007	39	na		<50		<5.0	23
	11/6/2007	39	na		<50		<5.0	27
	5/28/2008	39	na		<50		<5.0	25
	3/17/2009	39	na		<50		<2.0	24
3000200004D	11/29/2006	121	<0.02		<50		<5.0	14
	3/6/2007	121	na		<50		<5.0	37
	7/10/2007	121	na		<50		<5.0	39
	11/6/2007	121	na		<50		<5.0	42
	5/28/2008	121	na		<50		<5.0	42
	3/17/2009	121	na		<50		<2.0	46
AWCH-4	7/10/2007	88	na		<50		<5.0	47

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Beryllium Dissolved (ug/l as Be)	Boron Dissolved (ug/l as B)	Cadmium Dissolved (ug/l as Cd)	Chromium Dissolved (ug/l as Cr)	Cobalt Dissolved (ug/l as Co)	Copper Dissolved (ug/l as Cu)
3000200004S	11/29/2006	22			<2.0	<25		<2.0
	3/6/2007	22			<1.0	<10		<2.0
	7/10/2007	22			<1.0	<10		<2.0
	11/6/2007	22			<1.0	<10		<2.0
	5/28/2008	22			<1.0	<10		<2.0
	3/17/2009	22			<1.0	<10		<2.0
3000200004I	11/29/2006	39			<2.0	<25		<2.0
	3/6/2007	39			<1.0	<10		<2.0
	7/10/2007	39			<1.0	<10		<2.0
	11/6/2007	39			<1.0	<10		<2.0
	5/28/2008	39			<1.0	<10		<2.0
	3/17/2009	39			<1.0	<10		<2.0
3000200004D	11/29/2006	121			<2.0	<25		<2.0
	3/6/2007	121			<1.0	<10		<2.0
	7/10/2007	121			<1.0	<10		<2.0
	11/6/2007	121			<1.0	<10		<2.0
	5/28/2008	121			<1.0	<10		<2.0
	3/17/2009	121			<1.0	<10		<2.0
AWCH-4	7/10/2007	88			<1	<10		<2.0

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Iron Dissolved (ug/l as Fe)	Lead Dissolved (ug/l as Pb)	Manganese Dissolved (ug/l as Mn)	Mercury Dissolved (ug/l as Hg)	Molybdenum Dissolved (ug/l as Mo)	Nickel Dissolved (ug/l as Ni)
3000200004S	11/29/2006	22	<50	<10	<10			<10
	3/6/2007	22	<50	<10	<10			<10
	7/10/2007	22	<50	<10	<10			<10
	11/6/2007	22	<50	<10	<10			<10
	5/28/2008	22	<50	<10	<10			<10
	3/17/2009	22	<50	<10	<10			<10
3000200004I	11/29/2006	39	<50	<10	200			<10
	3/6/2007	39	<50	<10	<10			<10
	7/10/2007	39	<50	<10	<10			<10
	11/6/2007	39	<50	<10	<10			<10
	5/28/2008	39	<50	<10	<10			<10
	3/17/2009	39	<50	<10	<10			<10
3000200004D	11/29/2006	121	<50	<10	<10			<10
	3/6/2007	121	<50	<10	19			<10
	7/10/2007	121	<50	<10	22			<10
	11/6/2007	121	<50	<10	24			<10
	5/28/2008	121	<50	<10	25			<10
	3/17/2009	121	<50	<10	26			<10
AWCH-4	7/10/2007	88	<50	<10	16			<10

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Selenium Dissolved (ug/l as Se)	Silver Dissolved (ug/l as Ag)	Zinc Dissolved (ug/l as Zn)	Alpha count, 2 sigma wat dis as TH-230 (pci/l)	Alpha radio, wat dis as TH-230 (pci/l)	Beta, 2 sigma wat dis as CS-137 (pci/l)
3000200004S	11/29/2006	22	na	<5.0	<10			
	3/6/2007	22	<5.0	<5.0	<10			
	7/10/2007	22	<5.0	<5.0	<10			
	11/6/2007	22	<5.0	<5.0	<10			
	5/28/2008	22	<5.0	na	<10			
	3/17/2009	22	<5.0	<5.0	<10			
3000200004I	11/29/2006	39	na	<5.0	<10			
	3/6/2007	39	<5.0	<5.0	<10			
	7/10/2007	39	<5.0	<5.0	<10			
	11/6/2007	39	<5.0	<5.0	<10			
	5/28/2008	39	<5.0	na	<10			
	3/17/2009	39	<5.0	<5.0	<10			
3000200004D	11/29/2006	121	na	<5.0	15			
	3/6/2007	121	<5.0	<5.0	<10			
	7/10/2007	121	<5.0	<5.0	<10			
	11/6/2007	121	<5.0	<5.0	<10			
	5/28/2008	121	<5.0	na	<10			
	3/17/2009	121	<5.0	<5.0	<10			
AWCH-4	7/10/2007	88	<5.0	<5.0	<10			

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	Gross alpha, 2x cl, ss mdc, wat filt (pci/l)	Gross beta, diss as CS-137 (pci/l)	Gross Beta, 2x cl, ss mdc, wat filt (pci/l)	N-15 / N-14 Stable Isotope Ratio (per mil)	Radon 222 total (pci/l)	Radon 222, 2x cl, ss mdc, wat unfilt (pci/l)
3000200004S	11/29/2006	22						
	3/6/2007	22						
	7/10/2007	22						
	11/6/2007	22						
	5/28/2008	22						
	3/17/2009	22						
3000200004I	11/29/2006	39						
	3/6/2007	39						
	7/10/2007	39						
	11/6/2007	39						
	5/28/2008	39						
	3/17/2009	39						
3000200004D	11/29/2006	121						
	3/6/2007	121						
	7/10/2007	121						
	11/6/2007	121						
	5/28/2008	121						
	3/17/2009	121						
AWCH-4	7/10/2007	88						

**Allison Woods Groundwater Monitoring and Research Station
MW-4 Cluster**

Station ID	Sampling Date	Sampling Depth (ft)	RN-222 2 sigma wat total (pci/l)	Uranium Nat, dissolv (ug/l as U)	Sulfide Dissolved (ug/L as S)	Total Organic Carbon total (mg/L)	Turbidity total (NTU)
3000200004S	11/29/2006	22			<0.1	<2.0	1.0
	3/6/2007	22			<0.1	<2.0	<1.0
	7/10/2007	22			<0.1	<2.0	<1.0
	11/6/2007	22			na	<2.0	<1.0
	5/28/2008	22			na	na	4.7
	3/17/2009	22			<0.1	na	na
3000200004I	11/29/2006	39			<0.1	<2.0	<1.0
	3/6/2007	39			<0.1	<2.0	<1.0
	7/10/2007	39			<0.1	<2.0	<1.0
	11/6/2007	39			na	<2.0	<1.0
	5/28/2008	39			na	na	<1.0
	3/17/2009	39			<0.1	na	na
3000200004D	11/29/2006	121			<0.1	<2.0	<1.0
	3/6/2007	121			<0.1	<2.0	<1.0
	7/10/2007	121			<0.1	<2.0	<1.0
	11/6/2007	121			na	<2.0	<1.0
	5/28/2008	121			na	na	<1.0
	3/17/2009	121			<0.1	na	na
AWCH-4	7/10/2007	88			<0.1	<2.0	<1.0

Water Quality Analysis
Allison Woods Groundwater Monitoring and Research Station
Allison Woods Stream

Station ID	Sampling Date	Sampling Depth (ft)	Dissolved Oxygen (mg/L)	pH WH, Field (standard units)	pH-Lab WH, Lab (standard units)	Specific Cond., Field (us/cm)	Specific Cond., Lab (us/cm)	Water Temp. (deg C)
3000200001Y	3/6/2007	na	5.1	6.1	7.2	60	71	12.5
	7/11/2007	na	7.2	6.1	6.4	59	57	17.4
	11/6/2007	na	7.7	6.7	6.8	55	53	12.2
	5/27/2008	na	5.2	7.4		44		17.1
	5/28/2008	na	7.2	6.6	na	55	na	15.5
	3/23/2009	na	na	7.1	6.5	86	na	15.9

Station ID	Sampling Date	Sampling Depth (ft)	Hardness, non-carb diss fld. as CaCO3 (mg/l)	Hardness Total (mg/l as CaCO3)	Calcium Dissolved (mg/l as Ca)	Magnesium Dissolved (mg/l as Mg)	Potassium Dissolved (mg/l as K)	Sodium Dissolved (mg/l as Na)
3000200001Y	3/6/2007	na			na	na	na	3.6
	7/11/2007	na			4.7	2.4	1.2	2.8
	11/6/2007	na			na	na	na	2.9
	5/27/2008	na			4.9	2.5	1.1	
	5/28/2008	na			na	na	na	2.8
	3/23/2009	na			5.2	2.6	1.7	3.3

Station ID	Sampling Date	Sampling Depth (ft)	Sodium Adsorption Ratio	Sodium Percent	ANC, TIT. 4.5, L (mg/l as CaCO3)	ANC, Unfilt IT Field (mg/L as CaCO3)	Bicarbonate Dissolved (mg/L as HCO3)	Bromide Dissolved (mg/l as Br)
3000200001Y	3/6/2007	na					8	
	7/11/2007	na					21	
	11/6/2007	na					21	
	5/27/2008	na						
	5/28/2008	na					na	
	3/23/2009	na					17	

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Station ID	Sampling Date	Sampling Depth (ft)	Chloride Dissolved (mg/l as Cl)	Fluoride Dissolved (mg/l as F)	Silica Dissolved (mg/l as SiO2)	Sulfate Dissolved (mg/l as SO4)	Solids Dissolved (mg/l)	Solids, Residue at 180 deg C (mg/l)
3000200001Y	3/6/2007	na	4.0	<0.40	14	2.8	73	<2.5
	7/11/2007	na	2.5	<0.40	16	<2.0	55	33
	11/6/2007	na	<1.0	<0.40	16	<2.0	54	<6.2
	5/27/2008	na						
	5/28/2008	na	2.9	<0.40	na	<2.0	na	na
	3/23/2009	na	2.9	<0.40	12	<2.0	54	na

Station ID	Sampling Date	Sampling Depth (ft)	Solids, sum of constituents diss. (mg/l)	Nitrogen Ammonia (mg/L as N)	Nitrogen Ammonia + Organic	Nitrogen Ammonia (mg/L as NH4)	Nitrogen dissolved (mg/l as N)	NO2 + NO3 diss. (mg/L as N)
3000200001Y	3/6/2007	na				<0.02		1.70
	7/11/2007	na				<0.02		0.60
	11/6/2007	na				na		0.25
	5/27/2008	na				na		
	5/28/2008	na				na		na
	3/23/2009	na				na		0.95

Station ID	Sampling Date	Sampling Depth (ft)	Nitrogen Nitrite Dis (mg/l as N)	Nitrogen, Nitrate Dis (mg/L as N)	Nitrogen, Nitrate Dis (mg/L as NO3)	Nitrogen Nitrite Dis (mg/l as NO2)	Nitrogen Organic Dis (mg/l as N)	Phosphate Ortho, dis (mg/l as PO4)
3000200001Y	3/6/2007	na					na	
	7/11/2007	na					na	
	11/6/2007	na					na	
	5/27/2008	na					na	
	5/28/2008	na					na	
	3/23/2009	na					na	

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Station ID	Sampling Date	Sampling Depth (ft)	Phosphorus Ortho, dis (mg/l as P)	Carbon Dioxide, dis (mg/l as CO2)	Aluminum Dissolved (ug/l as Al)	Antimony Dissolved (ug/l as Sb)	Arsenic Dissolved (ug/l as As)	Barium Dissolved (ug/l as Ba)
3000200001Y	3/6/2007	na	na		na		na	na
	7/11/2007	na	na		<50		<5.0	39
	11/6/2007	na	na		na		na	na
	5/27/2008	na	na		<50		<5.0	35
	5/28/2008	na	na		na		na	na
	3/23/2009	na	na		<50		<2.0	33

Station ID	Sampling Date	Sampling Depth (ft)	Beryllium Dissolved (ug/l as Be)	Boron Dissolved (ug/l as B)	Cadmium Dissolved (ug/l as Cd)	Chromium Dissolved (ug/l as Cr)	Cobalt Dissolved (ug/l as Co)	Copper Dissolved (ug/l as Cu)
3000200001Y	3/6/2007	na			na	na		na
	7/11/2007	na			<1.0	<10		<2.0
	11/6/2007	na			na	na		na
	5/27/2008	na			<1.0	<10		28
	5/28/2008	na			na	na		na
	3/23/2009	na			<1.0	<10		<2

Station ID	Sampling Date	Sampling Depth (ft)	Iron Dissolved (ug/l as Fe)	Lead Dissolved (ug/l as Pb)	Manganese Dissolved (ug/l as Mn)	Mercury Dissolved (ug/l as Hg)	Molybdenum Dissolved (ug/l as Mo)	Nickel Dissolved (ug/l as Ni)
3000200001Y	3/6/2007	na	na	na	na			na
	7/11/2007	na	77	<10	100			<10
	11/6/2007	na	na	na	na			na
	5/27/2008	na	140	<10	37			<10
	5/28/2008	na	na	na	na			na
	3/23/2009	na	<50	<10	13			<10

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Station ID	Sampling Date	Sampling Depth (ft)	Selenium Dissolved (ug/l as Se)	Silver Dissolved (ug/l as Ag)	Zinc Dissolved (ug/l as Zn)	Alpha count, 2 sigma wat dis as TH-230 (pci/l)	Alpha radio, wat dis as TH-230 (pci/l)	Beta, 2 sigma wat dis as CS-137 (pci/l)
3000200001Y	3/6/2007	na	na	na	na			
	7/11/2007	na	<5	<5.0	<10			
	11/6/2007	na	na	na	na			
	5/27/2008	na	<5	na	20			
	5/28/2008	na	na	na	na			
	3/23/2009	na	<5	<5	<10			

Station ID	Sampling Date	Sampling Depth (ft)	Gross alpha, 2x cl, ss mdc, wat filt (pci/l)	Gross beta, diss as CS-137 (pci/l)	Gross Beta, 2x cl, ss mdc, wat filt (pci/l)	N-15 / N-14 Stable Isotope Ratio (per mil)	Radon 222 total (pci/l)	Radon 222, 2x cl, ss mdc, wat unfilt (pci/l)
3000200001Y	3/6/2007	na						
	7/11/2007	na						
	11/6/2007	na						
	5/27/2008	na						
	5/28/2008	na						
	3/23/2009	na						

Station ID	Sampling Date	Sampling Depth (ft)	RN-222 2 sigma wat total (pci/l)	Uranium Nat, dissolv (ug/l as U)	Sulfide Dissolved (ug/L as S)	Total Organic Carbon total (mg/L)	Turbidity total (NTU)
3000200001Y	3/6/2007	na			<0.1	<2.0	3.0
	7/11/2007	na			<0.1	<2.0	24
	11/6/2007	na			na	<2.0	<1.0
	5/27/2008	na			na	na	
	5/28/2008	na			na	na	na
	3/23/2009	na			<0.1	na	na