



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-008  
**Client Sample ID:** T2/BC-10 (0-6")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.1	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.91	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	55.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	6.49	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.20	meq/l		0.05		SW6010B	01/08/07 09:37 / rp
Magnesium, sat. paste	3.00	meq/l		0.08		SW6010B	01/08/07 09:37 / rp
Sodium, sat. paste	2.22	meq/l		0.04		SW6010B	01/08/07 09:37 / rp
Sulfate, sat. paste	1.78	meq/L		0.02		SW6010B	01/08/07 09:37 / rp
Chloride, sat. paste	0.08	meq/L		0.03		SW6010B	01/08/07 09:37 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	20	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	48	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	32	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiCL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Potassium, NH4OAc Extractable	246	meq/100g		1		ASA13-3	01/10/07 15:37 / rp
Organic Matter	2.96	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	37.2	meq/100g		0.09		SW6010B	01/12/07 11:06 / rp
Lime as CaCO3	6.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	12	mg/kg		0.1		ASA24-5	01/05/07 13:59 / sld
Nitrate as N, KCL Extract	5.6	mg/kg		1.0		ASA38-3	01/08/07 12:26 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.75	meq/100g		0.04		SW6010B	01/10/07 15:37 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.7	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	1.22	mg/kg		0.02		SW6010B	01/04/07 16:24 / rp
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.0	mg/kg		0.20		SW6010B	01/04/07 14:10 / rp
Boron	0.50	mg/kg		0.20		SW6010B	01/04/07 14:10 / rp

**Report Definitions:** RL - Analyte reporting limit.  
 QCL - Quality control limit.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-008  
**Client Sample ID:** T2/BC-10 (0-6")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 17:00  
**DateReceived:** 12/15/06  
**Matrix:** Soil

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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, CACL2 EXTRACTABLE</b>							
Selenium	0.066	mg/kg		0.010		SW6010B	01/04/07 14:10 / rp

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-009  
**Client Sample ID:** T2/BC-10 (6-12")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.99	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	47.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.36	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.27	meq/l		0.05		SW6010B	01/08/07 09:40 / rp
Magnesium, sat. paste	2.41	meq/l		0.08		SW6010B	01/08/07 09:40 / rp
Sodium, sat. paste	3.95	meq/l		0.04		SW6010B	01/08/07 09:40 / rp
Sulfate, sat. paste	4.58	meq/L		0.02		SW6010B	01/08/07 09:40 / rp
Chloride, sat. paste	0.09	meq/L		0.03		SW6010B	01/08/07 09:40 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	26	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	47	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	32.2	meq/100g		0.09		SW6010B	01/12/07 11:09 / rp
Lime as CaCO3	7.3	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	7.4	mg/kg		1.0		ASA38-3	01/08/07 12:28 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.09	meq/100g		0.04		SW6010B	01/10/07 15:40 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	2.8	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-010  
Client Sample ID: T2/BC-10 (12-24")

Report Date: 01/17/07  
Collection Date: 12/12/06 17:00  
Date Received: 12/15/06  
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	3.29	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	56.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.33	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	11.4	meq/l		0.05		SW6010B	01/08/07 09:49 / rp
Magnesium, sat. paste	9.75	meq/l		0.08		SW6010B	01/08/07 09:49 / rp
Sodium, sat. paste	13.2	meq/l		0.04		SW6010B	01/08/07 09:49 / rp
Sulfate, sat. paste	33.8	meq/L		0.02		SW6010B	01/08/07 09:49 / rp
Chloride, sat. paste	0.16	meq/L		0.03		SW6010B	01/08/07 09:49 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	12	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	47	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	41	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiC	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	38.1	meq/100g		0.09		SW6010B	01/12/07 11:12 / rp
Lime as CaCO3	6.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	4.5	mg/kg		1.0		ASA38-3	01/08/07 12:30 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.51	meq/100g		0.04		SW6010B	01/10/07 15:49 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.6	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: Tier II  
 Lab ID: H06120136-011  
 Client Sample ID: T2/BC-10 (24-36")

Report Date: 01/17/07  
 Collection Date: 12/12/06 17:00  
 Date Received: 12/15/06  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	4.16	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	57.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	6.1	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.65	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	15.1	meq/l		0.05		SW6010B	01/08/07 09:55 / rp
Magnesium, sat. paste	12.0	meq/l		0.08		SW6010B	01/08/07 09:55 / rp
Sodium, sat. paste	22.5	meq/l		0.04		SW6010B	01/08/07 09:55 / rp
Chloride, sat. paste	0.63	meq/L		0.03		SW6010B	01/08/07 09:55 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	12	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	46	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	42	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiC	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	35.9	meq/100g		0.09		SW6010B	01/12/07 11:18 / rp
Lime as CaCO3	6.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.40	meq/100g		0.04		SW6010B	01/10/07 15:55 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	5.9	%		0.1		USDA20a	01/04/07 12:21 / jjm

Report Definitions: RL - Analyte reporting limit.  
 QCL - Quality control limit.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-012  
**Client Sample ID:** T2/BC-10 (36-60")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	5.68	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	60.1	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	9.4	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.03	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	19.4	meq/l		0.05		SW6010B	01/08/07 09:58 / rp
Magnesium, sat. paste	14.6	meq/l		0.08		SW6010B	01/08/07 09:58 / rp
Sodium, sat. paste	39.0	meq/l		0.04		SW6010B	01/08/07 09:58 / rp
Chloride, sat. paste	1.02	meq/L		0.03		SW6010B	01/08/07 09:58 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	6	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	51	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	43	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiC	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Cation Exchange Capacity	33.9	meq/100g		0.09		SW6010B	01/12/07 11:21 / rp
Lime as CaCO3	6.7	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	5.52	meq/100g		0.04		SW6010B	01/10/07 15:58 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	3.2	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	9.4	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, CaCl2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	01/04/07 14:13 / rp
Boron	1.2	mg/kg		0.20		SW6010B	01/04/07 14:13 / rp
Selenium	0.078	mg/kg		0.010		SW6010B	01/04/07 14:13 / rp

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: Tier II  
 Lab ID: H06120136-013  
 Client Sample ID: T2/BC-10 (60-96")

Report Date: 01/17/07  
 Collection Date: 12/12/06 17:00  
 Date Received: 12/15/06  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	5.08	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	49.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	8.8	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	1.62	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	19.5	meq/l		0.05		SW6010B	01/08/07 10:01 / rp
Magnesium, sat. paste	12.1	meq/l		0.08		SW6010B	01/08/07 10:01 / rp
Sodium, sat. paste	35.2	meq/l		0.04		SW6010B	01/08/07 10:01 / rp
Chloride, sat. paste	0.90	meq/L		0.03		SW6010B	01/08/07 10:01 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	28	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	43	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	25.0	meq/100g		0.09		SW6010B	01/12/07 11:24 / rp
Lime as CaCO3	7.4	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.99	meq/100g		0.04		SW6010B	01/10/07 16:01 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.2	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	9.0	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-014  
**Client Sample ID:** T2/BC-10 (0-2")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.3	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.11	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	61.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	0.83	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	9.13	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.80	meq/l		0.05		SW6010B	01/08/07 10:04 / rp
Magnesium, sat. paste	4.16	meq/l		0.08		SW6010B	01/08/07 10:04 / rp
Sodium, sat. paste	1.85	meq/l		0.04		SW6010B	01/08/07 10:04 / rp
Chloride, sat. paste	0.05	meq/L		0.03		SW6010B	01/08/07 10:04 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	18	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	51	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	31	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiCL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	37.7	meq/100g		0.09		SW6010B	01/12/07 11:27 / rp
Lime as CaCO3	6.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.67	meq/100g		0.04		SW6010B	01/10/07 16:04 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.5	%		0.1		USDA20a	01/04/07 12:21 / jjm

**Report Definitions:** RL - Analyte reporting limit.  
 QCL - Quality control limit.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.