



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-015  
**Client Sample ID:** T2/GA-10-(0-6")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**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	12/08/08 07:12 / sah
Conductivity, sat. paste	0.71	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	45.6	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	4.47	meq/l		0.05		SW6010B	12/11/08 11:36 / sld
Magnesium, sat. paste	2.20	meq/l		0.08		SW6010B	12/11/08 11:36 / sld
Sodium, sat. paste	0.94	meq/l		0.04		SW6010B	12/11/08 11:36 / sld
Sodium Adsorption Ratio (SAR)	0.51	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	6.96	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	32	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	42	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	26	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Potassium, NH4OAc Extractable	207	mg/kg		1		ASA13-3	12/12/08 15:01 / sld
Cation Exchange Capacity	26.3	meq/100g		0.09		SW6010B	12/12/08 11:12 / sld
Organic Matter	3.26	%		0.02		ASA29-3	12/12/08 13:31 / sah
Lime as CaCO3	5.6	%		0.1		USDA23c	12/11/08 00:00 / wj
Phosphorus	9.3	mg/kg		0.1		ASA24-5	12/19/08 15:39 / stp
Nitrate as N, KCL Extract	30	mg/kg		1.0		ASA38-3	12/19/08 15:32 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.45	meq/100g		0.0044		SW6010B	12/12/08 15:01 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	1.6	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Fluoride	0.76	mg/kg		0.10		E300.0	12/12/08 15:30 / hm
Sulfate, sat. paste	0.70	meq/L		0.021		E300.0	12/12/08 15:30 / hm
Chloride, sat. paste	0.28	meq/L		0.028		E300.0	12/12/08 15:30 / hm
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.50	mg/kg		0.02		SW6010B	12/17/08 13:31 / sld
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:22 / eau

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

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



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**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-015  
**Client Sample ID:** T2/GA-10-(0-6")

**Report Date:** 12/29/08  
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**Date Received:** 10/28/08  
**Matrix:** Soil

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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.3	mg/kg		0.20		SW6010B	12/08/08 14:39 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/08/08 14:39 / sld

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-016  
**Client Sample ID:** T2/GA-10-(6-12")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**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	12/08/08 07:12 / sah
Conductivity, sat. paste	0.87	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	43.2	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	4.64	meq/l		0.05		SW6010B	12/11/08 11:38 / sld
Magnesium, sat. paste	2.40	meq/l		0.08		SW6010B	12/11/08 11:38 / sld
Sodium, sat. paste	1.39	meq/l		0.04		SW6010B	12/11/08 11:38 / sld
Sodium Adsorption Ratio (SAR)	0.74	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	4.17	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	28	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	46	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	26	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	25.9	meq/100g		0.09		SW6010B	12/12/08 11:20 / sld
Lime as CaCO3	5.9	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	16	mg/kg		1.0		ASA38-3	12/19/08 14:42 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.54	meq/100g		0.0044		SW6010B	12/12/08 15:03 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	1.9	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Sulfate, sat. paste	4.9	meq/L		0.021		E300.0	12/12/08 15:49 / hm
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	12/12/08 15:49 / hm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-017  
**Client Sample ID:** T2/GA-10-(12-24")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**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	12/08/08 07:13 / sah
Conductivity, sat. paste	2.42	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	39.6	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	10.8	meq/l		0.05		SW6010B	12/11/08 11:41 / sld
Magnesium, sat. paste	8.63	meq/l		0.08		SW6010B	12/11/08 11:41 / sld
Sodium, sat. paste	8.50	meq/l		0.04		SW6010B	12/11/08 11:41 / sld
Sodium Adsorption Ratio (SAR)	2.7	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	3.18	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	30	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	46	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	24	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	21.4	meq/100g		0.09		SW6010B	12/12/08 11:22 / sld
Lime as CaCO3	7.1	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	11	mg/kg		1.0		ASA38-3	12/19/08 14:44 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.2	meq/100g		0.0044		SW6010B	12/12/08 15:06 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	4.2	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Sulfate, sat. paste	26	meq/L		0.021		E300.0	12/12/08 16:08 / hm
Chloride, sat. paste	0.69	meq/L		0.028		E300.0	12/12/08 16:08 / hm

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## LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-018  
**Client Sample ID:** T2/GA-10-(24-36")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**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	12/08/08 07:14 / sah
Conductivity, sat. paste	4.08	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	39.0	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	12.6	meq/l		0.05		SW6010B	12/11/08 11:43 / sld
Magnesium, sat. paste	21.5	meq/l		0.08		SW6010B	12/11/08 11:43 / sld
Sodium, sat. paste	22.2	meq/l		0.04		SW6010B	12/11/08 11:43 / sld
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	2.98	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	34	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	46	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	20	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	19.0	meq/100g		0.09		SW6010B	12/12/08 11:25 / sld
Lime as CaCO3	6.9	%		0.1		USDA23c	12/11/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.1	meq/100g		0.0044		SW6010B	12/12/08 15:09 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.3	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	6.6	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.89	meq/L		0.028		E300.0	12/12/08 16:28 / hm

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QCL - Quality control limit.

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



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-019  
**Client Sample ID:** T2/GA-10-(36-60")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	12/08/08 07:14 / sah
Conductivity, sat. paste	5.31	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	34.6	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	13.1	meq/l		0.05		SW6010B	12/11/08 11:46 / sld
Magnesium, sat. paste	26.9	meq/l		0.08		SW6010B	12/11/08 11:46 / sld
Sodium, sat. paste	31.6	meq/l		0.04		SW6010B	12/11/08 11:46 / sld
Sodium Adsorption Ratio (SAR)	7.1	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	2.78	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	42	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	40	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	18	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	14.9	meq/100g		0.09		SW6010B	12/12/08 11:28 / sld
Lime as CaCO3	6.6	%		0.1		USDA23c	12/11/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.4	meq/100g		0.0044		SW6010B	12/12/08 15:16 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.3	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	8.9	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Fluoride	0.90	mg/kg		0.10		E300.0	12/12/08 16:47 / hm
Chloride, sat. paste	1.1	meq/L		0.028		E300.0	12/12/08 16:47 / hm
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:23 / eau
<b>METALS, CaCl2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	12/08/08 15:10 / sld
Boron	0.63	mg/kg		0.20		SW6010B	12/08/08 15:10 / sld

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-020  
**Client Sample ID:** T2/GA-10-(60-96")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	12/08/08 07:15 / sah
Conductivity, sat. paste	2.24	mmhos/cm		0.01		ASA10-3	12/16/08 11:10 / sah
Saturation	28.8	%		0.1		USDA27a	12/08/08 08:04 / wj
Calcium, sat. paste	3.49	meq/l		0.05		SW6010B	12/11/08 11:49 / sld
Magnesium, sat. paste	6.22	meq/l		0.08		SW6010B	12/11/08 11:49 / sld
Sodium, sat. paste	13.8	meq/l		0.04		SW6010B	12/11/08 11:49 / sld
Sodium Adsorption Ratio (SAR)	6.3	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	3.18	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	70	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	18	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	12	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	SL	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	11.4	meq/100g		0.09		SW6010B	12/12/08 11:30 / sld
Lime as CaCO3	5.3	%		0.1		USDA23c	12/11/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.4	meq/100g		0.0044		SW6010B	12/12/08 15:19 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	8.6	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.74	meq/L		0.028		E300.0	12/12/08 17:46 / hm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100399-021  
**Client Sample ID:** T2/GA-10-(0-2")

**Report Date:** 12/29/08  
**Collection Date:** 10/22/08 17:00  
**Date Received:** 10/28/08  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.4	s.u.		0.1		ASAM10-3.2	12/08/08 07:16 / sah
Conductivity, sat. paste	0.88	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	47.6	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	5.32	meq/l		0.05		SW6010B	12/11/08 11:59 / sld
Magnesium, sat. paste	2.61	meq/l		0.08		SW6010B	12/11/08 11:59 / sld
Sodium, sat. paste	0.78	meq/l		0.04		SW6010B	12/11/08 11:59 / sld
Sodium Adsorption Ratio (SAR)	0.39	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	8.75	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	14	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	60	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	26	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	SiL	unitless				ASA15-5	12/09/08 09:42 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	26.9	meq/100g		0.09		SW6010B	12/12/08 11:40 / sld
Lime as CaCO3	5.6	%		0.1		USDA23c	12/11/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.37	meq/100g		0.0044		SW6010B	12/12/08 15:24 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	1.2	%		0.1		USDA20a	12/16/08 11:19 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.25	meq/L		0.028		E300.0	12/12/08 18:24 / hm

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