



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-008  
**Client Sample ID:** T2/DB-10-(0-6")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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	7.2	s.u.		0.1		ASAM10-3.2	12/08/08 07:46 / sah
Conductivity, sat. paste	0.71	mmhos/cm		0.01		ASA10-3	12/09/08 09:39 / sah
Saturation	57.6	%		0.1		USDA27a	12/08/08 08:11 / wj
Calcium, sat. paste	3.04	meq/l		0.05		SW6010B	12/11/08 12:51 / sld
Magnesium, sat. paste	2.00	meq/l		0.08		SW6010B	12/11/08 12:51 / sld
Sodium, sat. paste	1.79	meq/l		0.04		SW6010B	12/11/08 12:51 / sld
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	5.77	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	17	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	43	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	40	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	SiC	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Potassium, NH4OAc Extractable	859	mg/kg		1		ASA13-3	12/18/08 15:17 / sld
Cation Exchange Capacity	31.9	meq/100g		0.09		SW6010B	12/10/08 19:13 / sld
Organic Matter	2.74	%		0.02		ASA29-3	12/12/08 13:32 / sah
Lime as CaCO3	4.7	%		0.1		USDA23c	12/20/08 00:00 / wj
Phosphorus	11	mg/kg		0.1		ASA24-5	12/19/08 15:44 / stp
Nitrate as N, KCL Extract	26	mg/kg		1.0		ASA38-3	12/19/08 15:37 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.3	meq/100g		0.0044		SW6010B	12/18/08 15:17 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.2	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	6.8	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Fluoride	1.0	mg/kg		0.10		E300.0	12/16/08 03:57 / hm
Sulfate, sat. paste	1.0	meq/L		0.021		E300.0	12/16/08 03:57 / hm
Chloride, sat. paste	0.41	meq/L		0.028		E300.0	12/16/08 03:57 / hm
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	1.00	mg/kg		0.02		SW6010B	12/17/08 13:44 / sld
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.05		E270.3	12/18/08 12:15 / 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:** H08100412-008  
**Client Sample ID:** T2/DB-10-(0-6")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 17:00  
**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	1.0	mg/kg		0.20		SW6010B	12/23/08 09:49 / sld
Boron	0.34	mg/kg		0.20		SW6010B	12/23/08 09:49 / sld

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-009  
**Client Sample ID:** T2/DB-10-(6-12")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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 07:46 / sah
Conductivity, sat. paste	0.99	mmhos/cm		0.01		ASA10-3	12/09/08 09:39 / sah
Saturation	47.5	%		0.1		USDA27a	12/08/08 08:11 / wj
Calcium, sat. paste	3.81	meq/l		0.05		SW6010B	12/11/08 12:53 / sld
Magnesium, sat. paste	2.43	meq/l		0.08		SW6010B	12/11/08 12:53 / sld
Sodium, sat. paste	3.30	meq/l		0.04		SW6010B	12/11/08 12:53 / sld
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	5.96	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	23	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	47	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	30	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	CL	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	28.8	meq/100g		0.09		SW6010B	12/10/08 19:15 / sld
Lime as CaCO3	5.9	%		0.1		USDA23c	12/20/08 00:00 / wj
Nitrate as N, KCL Extract	27	mg/kg		1.0		ASA38-3	12/19/08 15:40 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.2	meq/100g		0.0044		SW6010B	12/18/08 15:25 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	3.0	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	10	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Sulfate, sat. paste	3.5	meq/L		0.021		E300.0	12/16/08 04:17 / hm
Chloride, sat. paste	0.52	meq/L		0.028		E300.0	12/16/08 04:17 / hm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-010  
**Client Sample ID:** T2/DB-10-(12-24")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:47 / sah
Conductivity, sat. paste	1.25	mmhos/cm		0.01		ASA10-3	12/09/08 09:39 / sah
Saturation	38.4	%		0.1		USDA27a	12/08/08 08:12 / wj
Calcium, sat. paste	3.35	meq/l		0.05		SW6010B	12/11/08 13:01 / sld
Magnesium, sat. paste	2.50	meq/l		0.08		SW6010B	12/11/08 13:01 / sld
Sodium, sat. paste	6.86	meq/l		0.04		SW6010B	12/11/08 13:01 / sld
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	4.17	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	29	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	53	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	18	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	SiL	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	18.7	meq/100g		0.09		SW6010B	12/10/08 19:18 / sld
Lime as CaCO3	7.9	%		0.1		USDA23c	12/20/08 00:00 / wj
Nitrate as N, KCL Extract	14	mg/kg		1.0		ASA38-3	12/19/08 15:06 / stp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.2	meq/100g		0.0044		SW6010B	12/18/08 15:28 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	4.9	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Sulfate, sat. paste	7.8	meq/L		0.021		E300.0	12/16/08 04:36 / hm
Chloride, sat. paste	0.38	meq/L		0.028		E300.0	12/16/08 04:36 / hm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-011  
**Client Sample ID:** T2/DB-10-(24-36")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:49 / sah
Conductivity, sat. paste	1.81	mmhos/cm		0.01		ASA10-3	12/09/08 09:40 / sah
Saturation	33.3	%		0.1		USDA27a	12/08/08 08:12 / wj
Calcium, sat. paste	5.38	meq/l		0.05		SW6010B	12/11/08 13:06 / sld
Magnesium, sat. paste	4.39	meq/l		0.08		SW6010B	12/11/08 13:06 / sld
Sodium, sat. paste	9.75	meq/l		0.04		SW6010B	12/11/08 13:06 / sld
Sodium Adsorption Ratio (SAR)	4.4	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	3.38	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	35	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	50	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	15	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	SiL	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	16.1	meq/100g		0.09		SW6010B	12/10/08 19:28 / sld
Lime as CaCO3	7.4	%		0.1		USDA23c	12/20/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	12/18/08 15:33 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	6.2	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.45	meq/L		0.028		E300.0	12/16/08 05:54 / hm

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 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-012  
**Client Sample ID:** T2/DB-10-(36-60")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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 07:49 / sah
Conductivity, sat. paste	1.78	mmhos/cm		0.01		ASA10-3	12/09/08 09:40 / sah
Saturation	28.6	%		0.1		USDA27a	12/08/08 08:12 / wj
Calcium, sat. paste	3.63	meq/l		0.05		SW6010B	12/11/08 13:09 / sld
Magnesium, sat. paste	3.52	meq/l		0.08		SW6010B	12/11/08 13:09 / sld
Sodium, sat. paste	11.1	meq/l		0.04		SW6010B	12/11/08 13:09 / sld
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	3.18	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	37	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	53	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	10	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	SiL	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	11.2	meq/100g		0.09		SW6010B	12/10/08 19:31 / sld
Lime as CaCO3	6.4	%		0.1		USDA23c	12/20/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	12/18/08 15:35 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	8.9	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Fluoride	1.1	mg/kg		0.10		E300.0	12/16/08 06:52 / hm
Chloride, sat. paste	0.42	meq/L		0.028		E300.0	12/16/08 06:52 / hm
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.05		E270.3	12/18/08 12:17 / eau
Selenium	ND	mg/kg		0.05		E270.3	12/18/08 12:27 / eau
<b>METALS, CaCl2 EXTRACTABLE</b>							
Barium	0.28	mg/kg		0.20		SW6010B	12/23/08 09:51 / sld
Boron	0.28	mg/kg		0.20		SW6010B	12/23/08 09:51 / sld

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-013  
**Client Sample ID:** T2/DB-10-(60-96")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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 07:50 / sah
Conductivity, sat. paste	3.32	mmhos/cm		0.01		ASA10-3	12/09/08 09:41 / sah
Saturation	30.1	%		0.1		USDA27a	12/08/08 08:12 / wj
Calcium, sat. paste	7.44	meq/l		0.05		SW6010B	12/11/08 13:12 / sld
Magnesium, sat. paste	7.23	meq/l		0.08		SW6010B	12/11/08 13:12 / sld
Sodium, sat. paste	23.7	meq/l		0.04		SW6010B	12/11/08 13:12 / sld
Sodium Adsorption Ratio (SAR)	8.8	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	2.78	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	45	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	43	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	12	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	L	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	12.8	meq/100g		0.09		SW6010B	12/10/08 19:33 / sld
Lime as CaCO3	7.0	%		0.1		USDA23c	12/20/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.1	meq/100g		0.0044		SW6010B	12/18/08 15:38 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.4	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	11	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.37	meq/L		0.028		E300.0	12/16/08 07:12 / hm

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LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc.  
**Project:** TRIP Tier II (formerly referred to as AMPP)  
**Lab ID:** H08100412-014  
**Client Sample ID:** T2/DB-10-(0-2")

**Report Date:** 12/31/08  
**Collection Date:** 10/23/08 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	7.1	s.u.		0.1		ASAM10-3.2	12/08/08 07:51 / sah
Conductivity, sat. paste	0.70	mmhos/cm		0.01		ASA10-3	12/09/08 09:41 / sah
Saturation	52.2	%		0.1		USDA27a	12/08/08 08:12 / wj
Calcium, sat. paste	3.76	meq/l		0.05		SW6010B	12/11/08 13:14 / sld
Magnesium, sat. paste	2.25	meq/l		0.08		SW6010B	12/11/08 13:14 / sld
Sodium, sat. paste	1.43	meq/l		0.04		SW6010B	12/11/08 13:14 / sld
Sodium Adsorption Ratio (SAR)	0.82	unitless		0.01		Calculation	12/18/08 10:24 / wj
Bicarbonate, sat. paste	6.56	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	43	%		1		ASA15-5	12/05/08 16:30 / sah
Silt	21	%		1		ASA15-5	12/05/08 16:30 / sah
Clay	36	%		1		ASA15-5	12/05/08 16:30 / sah
Texture	CL	unitless				ASA15-5	12/05/08 16:30 / sah
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	33.7	meq/100g		0.09		SW6010B	12/10/08 19:36 / sld
Lime as CaCO3	5.1	%		0.1		USDA23c	12/20/08 00:00 / wj
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.57	meq/100g		0.0044		SW6010B	12/18/08 15:41 / sld
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	12/18/08 10:24 / wj
Exchangeable Sodium Percentage	1.5	%		0.1		USDA20a	12/18/08 10:24 / wj
<b>INORGANICS</b>							
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	12/16/08 07:31 / hm

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