



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-008
Client Sample ID: T2/YAA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.3	s.u.		0.1		ASAM10-3.2	12/08/08 07:27 / sah
Conductivity, sat. paste	0.63	mmhos/cm		0.01		ASA10-3	12/09/08 09:28 / sah
Saturation	53.5	%		0.1		USDA27a	12/08/08 08:07 / wj
Calcium, sat. paste	2.95	meq/l		0.05		SW6010B	12/11/08 09:45 / sld
Magnesium, sat. paste	1.98	meq/l		0.08		SW6010B	12/11/08 09:45 / sld
Sodium, sat. paste	1.67	meq/l		0.04		SW6010B	12/11/08 09:45 / sld
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	5.96	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	45	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	35	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiCL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	175	mg/kg		1		ASA13-3	12/12/08 13:05 / sld
Cation Exchange Capacity	34.0	meq/100g		0.09		SW6010B	12/11/08 18:34 / sld
Organic Matter	3.39	%		0.02		ASA29-3	12/12/08 13:29 / sah
Lime as CaCO3	4.0	%		0.1		USDA23c	12/11/08 00:00 / wj
Phosphorus	7.9	mg/kg		0.1		ASA24-5	12/19/08 15:32 / stp
Nitrate as N, KCL Extract	23	mg/kg		1.0		ASA38-3	12/19/08 15:26 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.74	meq/100g		0.0044		SW6010B	12/12/08 13:05 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	1.9	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Fluoride	0.74	mg/kg		0.10		E300.0	12/12/08 00:55 / hm
Sulfate, sat. paste	1.1	meq/L		0.021		E300.0	12/12/08 00:55 / hm
Chloride, sat. paste	0.23	meq/L		0.028		E300.0	12/12/08 00:55 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.46	mg/kg	B	0.02		SW6010B	12/17/08 13:16 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:03 / eau

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

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: H08100396-008
Client Sample ID: T2/YAA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.0	mg/kg		0.20		SW6010B	12/08/08 14:08 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/08/08 14:08 / sld

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: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-009
Client Sample ID: T2/YAA-10-(6-12")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	12/08/08 07:28 / sah
Conductivity, sat. paste	0.55	mmhos/cm		0.01		ASA10-3	12/09/08 09:28 / sah
Saturation	48.9	%		0.1		USDA27a	12/08/08 08:07 / wj
Calcium, sat. paste	2.43	meq/l		0.05		SW6010B	12/11/08 09:47 / sld
Magnesium, sat. paste	1.56	meq/l		0.08		SW6010B	12/11/08 09:47 / sld
Sodium, sat. paste	1.88	meq/l		0.04		SW6010B	12/11/08 09:47 / sld
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	4.57	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	42	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	34	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	CL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	30.0	meq/100g		0.09		SW6010B	12/11/08 18:37 / sld
Lime as CaCO3	4.4	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	11	mg/kg		1.0		ASA38-3	12/19/08 14:01 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.80	meq/100g		0.0044		SW6010B	12/12/08 13:12 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	2.4	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Sulfate, sat. paste	1.5	meq/L		0.021		E300.0	12/12/08 01:54 / hm
Chloride, sat. paste	0.25	meq/L		0.028		E300.0	12/12/08 01:54 / hm

Report Definitions: RL - Analyte reporting limit.
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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: H08100396-010
Client Sample ID: T2/YAA-10-(12-24")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:30 / sah
Conductivity, sat. paste	0.76	mmhos/cm		0.01		ASA10-3	12/09/08 09:28 / sah
Saturation	46.9	%		0.1		USDA27a	12/08/08 08:07 / wj
Calcium, sat. paste	2.33	meq/l		0.05		SW6010B	12/11/08 09:55 / sld
Magnesium, sat. paste	1.80	meq/l		0.08		SW6010B	12/11/08 09:55 / sld
Sodium, sat. paste	4.90	meq/l		0.04		SW6010B	12/11/08 09:55 / sld
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	5.37	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	46	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	30	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	CL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	30.6	meq/100g		0.09		SW6010B	12/11/08 18:39 / sld
Lime as CaCO3	4.9	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	11	mg/kg		1.0		ASA38-3	12/19/08 14:04 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	12/12/08 13:15 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	3.7	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Sulfate, sat. paste	3.6	meq/L		0.021		E300.0	12/12/08 02:13 / hm
Chloride, sat. paste	0.58	meq/L		0.028		E300.0	12/12/08 02:13 / hm

Report Definitions: RL - Analyte reporting limit.
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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: H08100396-011
Client Sample ID: T2/YAA-10-(24-36")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:31 / sah
Conductivity, sat. paste	1.56	mmhos/cm		0.01		ASA10-3	12/09/08 09:31 / sah
Saturation	50.3	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	3.97	meq/l		0.05		SW6010B	12/11/08 10:00 / sld
Magnesium, sat. paste	3.16	meq/l		0.08		SW6010B	12/11/08 10:00 / sld
Sodium, sat. paste	9.42	meq/l		0.04		SW6010B	12/11/08 10:00 / sld
Sodium Adsorption Ratio (SAR)	5.0	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	3.58	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	44	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	32	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	CL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	31.5	meq/100g		0.09		SW6010B	12/11/08 18:50 / sld
Lime as CaCO3	4.5	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.3	meq/100g		0.0044		SW6010B	12/12/08 13:20 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.8	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	5.7	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	0.29	meq/L		0.028		E300.0	12/12/08 02:52 / hm

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: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-012
Client Sample ID: T2/YAA-10-(36-60")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:32 / sah
Conductivity, sat. paste	3.12	mmhos/cm		0.01		ASA10-3	12/09/08 09:31 / sah
Saturation	46.7	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	9.44	meq/l		0.05		SW6010B	12/11/08 10:03 / sld
Magnesium, sat. paste	7.35	meq/l		0.08		SW6010B	12/11/08 10:03 / sld
Sodium, sat. paste	20.2	meq/l		0.04		SW6010B	12/11/08 10:03 / sld
Sodium Adsorption Ratio (SAR)	7.0	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	3.98	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	49	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	27	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	CL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	28.2	meq/100g		0.09		SW6010B	12/11/08 18:52 / sld
Lime as CaCO3	5.0	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.9	meq/100g		0.0044		SW6010B	12/12/08 13:23 / sld
EXCHANGEABLES							
Exchangeable Sodium	2.0	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	7.0	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Fluoride	1.1	mg/kg		0.10		E300.0	12/12/08 03:11 / hm
Chloride, sat. paste	0.33	meq/L		0.028		E300.0	12/12/08 03:11 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:05 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	0.22	mg/kg		0.20		SW6010B	12/08/08 14:10 / sld
Boron	0.34	mg/kg		0.20		SW6010B	12/08/08 14:10 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-013
Client Sample ID: T2/YAA-10-(60-96")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:33 / sah
Conductivity, sat. paste	4.30	mmhos/cm		0.01		ASA10-3	12/09/08 09:32 / sah
Saturation	43.1	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	14.1	meq/l		0.05		SW6010B	12/11/08 10:05 / sld
Magnesium, sat. paste	9.93	meq/l		0.08		SW6010B	12/11/08 10:05 / sld
Sodium, sat. paste	29.6	meq/l		0.04		SW6010B	12/11/08 10:05 / sld
Sodium Adsorption Ratio (SAR)	8.6	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	3.18	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	30	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	44	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	26	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	L	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	25.9	meq/100g		0.09		SW6010B	12/11/08 18:55 / sld
Lime as CaCO3	5.7	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.5	meq/100g		0.0044		SW6010B	12/12/08 13:25 / sld
EXCHANGEABLES							
Exchangeable Sodium	2.2	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	8.6	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	0.37	meq/L		0.028		E300.0	12/12/08 03:31 / hm

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: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-014
Client Sample ID: T2/YAA-10-(0-2")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.2	s.u.		0.1		ASAM10-3.2	12/08/08 07:34 / sah
Conductivity, sat. paste	0.77	mmhos/cm		0.01		ASA10-3	12/09/08 09:32 / sah
Saturation	56.9	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	4.19	meq/l		0.05		SW6010B	12/11/08 10:08 / sld
Magnesium, sat. paste	2.65	meq/l		0.08		SW6010B	12/11/08 10:08 / sld
Sodium, sat. paste	1.40	meq/l		0.04		SW6010B	12/11/08 10:08 / sld
Sodium Adsorption Ratio (SAR)	0.76	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	6.96	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	22	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	44	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	34	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	CL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	35.3	meq/100g		0.09		SW6010B	12/11/08 18:57 / sld
Lime as CaCO3	3.9	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.59	meq/100g		0.0044		SW6010B	12/12/08 13:28 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	1.4	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	12/12/08 03:50 / hm

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

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