



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-008
 Client Sample ID: T2/YAA-10-(0-6")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 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	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.71	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	55.6	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	4.80	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.20	meq/l		0.05		SW6010B	10/15/07 11:40 / skd
Magnesium, sat. paste	2.16	meq/l		0.08		SW6010B	10/15/07 11:40 / skd
Sodium, sat. paste	1.90	meq/l		0.04		SW6010B	10/15/07 11:40 / skd
Sulfate, sat. paste	2.12	meq/L		0.02		SW6010B	10/15/07 11:40 / skd
Chloride, sat. paste	0.35	meq/L		0.03		SW6010B	10/15/07 11:40 / skd
PHYSICAL CHARACTERISTICS							
Sand	23	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	50	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	27	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	136	meq/100g		1		ASA13-3	10/12/07 15:45 / skd
Organic Matter	3.19	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	33.8	meq/100g		0.09		SW6010B	10/18/07 07:36 / skd
Lime as CaCO3	3.7	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	7.9	mg/kg		0.1		ASA24-5	10/02/07 13:43 / sld
Nitrate as N, KCL Extract	8.4	mg/kg		1.0		ASA38-3	10/01/07 12:01 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.78	meq/100g		0.04		SW6010B	10/12/07 15:45 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	2.0	%		0.1		USDA20a	10/05/07 08:36 / jjm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 11:16 / skd
METALS, DTPA EXTRACTABLE							
Zinc	0.38	mg/kg		0.02		SW6010B	10/10/07 12:09 / skd

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: H07090283-008
Client Sample ID: T2/YAA-10-(0-6")

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
DateReceived: 09/25/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.0	mg/kg		0.20		SW6010B	10/10/07 10:50 / skd
Boron	0.22	mg/kg		0.20		SW6010B	10/10/07 10:50 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-009
 Client Sample ID: T2/YAA-10-(6-12")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.79	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	50.5	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	3.60	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.32	meq/l		0.05		SW6010B	10/15/07 11:43 / skd
Magnesium, sat. paste	2.36	meq/l		0.08		SW6010B	10/15/07 11:43 / skd
Sodium, sat. paste	3.03	meq/l		0.04		SW6010B	10/15/07 11:43 / skd
Sulfate, sat. paste	4.93	meq/L		0.02		SW6010B	10/15/07 11:43 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 11:43 / skd
PHYSICAL CHARACTERISTICS							
Sand	22	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	48	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	30	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	31.1	meq/100g		0.09		SW6010B	10/18/07 07:39 / skd
Lime as CaCO3	3.5	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	4.2	mg/kg		1.0		ASA38-3	10/01/07 12:03 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.99	meq/100g		0.04		SW6010B	10/12/07 15:47 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	2.7	%		0.1		USDA20a	10/05/07 08:36 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-010
 Client Sample ID: T2/YAA-10-(12-24")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	1.63	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	51.1	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	3.20	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.74	meq/l		0.05		SW6010B	10/15/07 11:46 / skd
Magnesium, sat. paste	3.43	meq/l		0.08		SW6010B	10/15/07 11:46 / skd
Sodium, sat. paste	11.0	meq/l		0.04		SW6010B	10/15/07 11:46 / skd
Sulfate, sat. paste	15.0	meq/L		0.02		SW6010B	10/15/07 11:46 / skd
Chloride, sat. paste	0.35	meq/L		0.03		SW6010B	10/15/07 11:46 / skd
PHYSICAL CHARACTERISTICS							
Sand	27	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	46	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	27	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	31.1	meq/100g		0.09		SW6010B	10/18/07 07:41 / skd
Lime as CaCO3	4.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	4.4	mg/kg		1.0		ASA38-3	10/01/07 12:05 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.37	meq/100g		0.04		SW6010B	10/12/07 15:50 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.8	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	5.8	%		0.1		USDA20a	10/05/07 08:36 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-011
 Client Sample ID: T2/YAA-10-(24-36")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	2.37	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	48.2	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	3.60	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	6.31	meq/l		0.05		SW6010B	10/15/07 11:51 / skd
Magnesium, sat. paste	5.28	meq/l		0.08		SW6010B	10/15/07 11:51 / skd
Sodium, sat. paste	14.0	meq/l		0.04		SW6010B	10/15/07 11:51 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 11:51 / skd
PHYSICAL CHARACTERISTICS							
Sand	26	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	46	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	28	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	29.8	meq/100g		0.09		SW6010B	10/18/07 07:47 / skd
Lime as CaCO3	4.1	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.31	meq/100g		0.04		SW6010B	10/12/07 16:00 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.6	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	5.5	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-012
 Client Sample ID: T2/YAA-10-(36-60")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	3.65	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	49.7	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	8.2	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	9.30	meq/l		0.05		SW6010B	10/15/07 12:14 / skd
Magnesium, sat. paste	7.97	meq/l		0.08		SW6010B	10/15/07 12:14 / skd
Sodium, sat. paste	24.3	meq/l		0.04		SW6010B	10/15/07 12:14 / skd
Chloride, sat. paste	0.53	meq/L		0.03		SW6010B	10/15/07 12:14 / skd
PHYSICAL CHARACTERISTICS							
Sand	28	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	47	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	25	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	L	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	1.4	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	28.9	meq/100g		0.09		SW6010B	10/18/07 07:49 / skd
Lime as CaCO3	4.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.46	meq/100g		0.04		SW6010B	10/12/07 16:03 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.2	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	7.8	%		0.1		USDA20a	10/05/07 08:36 / jjm
METALS, WATER SOLUBLE							
Selenium	0.006	mg/kg		0.005		E270.3	10/20/07 11:17 / skd
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 10:53 / skd
Boron	0.28	mg/kg		0.20		SW6010B	10/10/07 10:53 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-013
 Client Sample ID: T2/YAA-10-(60-96")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	7.70	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	50.7	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	16	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	17.5	meq/l		0.05		SW6010B	10/15/07 12:17 / skd
Magnesium, sat. paste	14.3	meq/l		0.08		SW6010B	10/15/07 12:17 / skd
Sodium, sat. paste	64.2	meq/l		0.04		SW6010B	10/15/07 12:17 / skd
Chloride, sat. paste	1.59	meq/L		0.03		SW6010B	10/15/07 12:17 / skd
PHYSICAL CHARACTERISTICS							
Sand	29	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	44	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	27	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	30.0	meq/100g		0.09		SW6010B	10/18/07 07:52 / skd
Lime as CaCO3	5.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	6.56	meq/100g		0.04		SW6010B	10/12/07 16:05 / skd
EXCHANGEABLES							
Exchangeable Sodium	3.3	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	11	%		0.1		USDA20a	10/05/07 08:36 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-014
 Client Sample ID: T2/YAA-10-(0-2")

Report Date: 11/01/07
 Collection Date: 09/20/07 17:00
 Date Received: 09/25/07
 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	10/05/07 08:36 / jjm
Conductivity, sat. paste	1.06	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	56.3	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	5.59	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.02	meq/l		0.05		SW6010B	10/15/07 12:20 / skd
Magnesium, sat. paste	2.75	meq/l		0.08		SW6010B	10/15/07 12:20 / skd
Sodium, sat. paste	2.53	meq/l		0.04		SW6010B	10/15/07 12:20 / skd
Chloride, sat. paste	0.53	meq/L		0.03		SW6010B	10/15/07 12:20 / skd
PHYSICAL CHARACTERISTICS							
Sand	25	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	46	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	29	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	CL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	34.5	meq/100g		0.09		SW6010B	10/18/07 07:54 / skd
Lime as CaCO3	3.5	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.83	meq/100g		0.04		SW6010B	10/12/07 16:08 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	2.0	%		0.1		USDA20a	10/05/07 08:36 / jjm

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