



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-001
 Client Sample ID: T2/OAA-10-(0-6")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 DateReceived: 09/24/07
 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	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.95	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	49.7	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.31	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	12.8	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	5.93	meq/l		0.05		SW6010B	10/15/07 08:18 / skd
Magnesium, sat. paste	2.95	meq/l		0.08		SW6010B	10/15/07 08:18 / skd
Sodium, sat. paste	0.66	meq/l		0.04		SW6010B	10/15/07 08:18 / skd
Sulfate, sat. paste	1.09	meq/l		0.02		SW6010B	10/15/07 08:18 / skd
Chloride, sat. paste	0.53	meq/L		0.03		SW6010B	10/15/07 08:18 / skd
PHYSICAL CHARACTERISTICS							
Sand	32	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	47	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	21	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	252	meq/100g		1		ASA13-3	10/12/07 12:08 / skd
Organic Matter	3.75	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	24.8	meq/100g		0.09		SW6010B	10/16/07 09:55 / skd
Lime as CaCO3	6.4	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	5.4	mg/kg		0.1		ASA24-5	10/02/07 13:29 / sld
Nitrate as N, KCL Extract	8.3	mg/kg		1.0		ASA38-3	10/01/07 10:59 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.39	meq/100g		0.04		SW6010B	10/12/07 12:08 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	1.5	%		0.1		USDA20a	10/05/07 15:04 / jjm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 10:20 / skd
METALS, DTPA EXTRACTABLE							
Zinc	0.59	mg/kg		0.02		SW6010B	10/10/07 11:45 / 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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Lab ID: H07090277-001
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Report Date: 11/01/07
Collection Date: 09/19/07 17:00
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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.9	mg/kg		0.20		SW6010B	10/10/07 10:00 / skd
Boron	0.34	mg/kg		0.20		SW6010B	10/10/07 10:00 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-002
 Client Sample ID: T2/OAA-10-(6-12")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 Date Received: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	0.57	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	42.0	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.35	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	5.99	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	2.94	meq/l		0.05		SW6010B	10/15/07 08:20 / skd
Magnesium, sat. paste	2.42	meq/l		0.08		SW6010B	10/15/07 08:20 / skd
Sodium, sat. paste	0.58	meq/l		0.04		SW6010B	10/15/07 08:20 / skd
Sulfate, sat. paste	0.55	meq/l		0.02		SW6010B	10/15/07 08:20 / skd
Chloride, sat. paste	0.56	meq/L		0.03		SW6010B	10/15/07 08:20 / skd
PHYSICAL CHARACTERISTICS							
Sand	27	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	51	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	22	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.6	meq/100g		0.09		SW6010B	10/16/07 09:57 / skd
Lime as CaCO3	7.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	3.1	mg/kg		1.0		ASA38-3	10/01/07 11:05 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.39	meq/100g		0.04		SW6010B	10/12/07 12:11 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	1.6	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-003
 Client Sample ID: T2/OAA-10-(12-24")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 Date Received: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	0.55	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	43.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	5.19	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	1.70	meq/l		0.05		SW6010B	10/15/07 08:23 / skd
Magnesium, sat. paste	1.42	meq/l		0.08		SW6010B	10/15/07 08:23 / skd
Sodium, sat. paste	2.70	meq/l		0.04		SW6010B	10/15/07 08:23 / skd
Sulfate, sat. paste	0.84	meq/l		0.02		SW6010B	10/15/07 08:23 / skd
Chloride, sat. paste	0.28	meq/L		0.03		SW6010B	10/15/07 08:23 / skd
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	45	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	21	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	22.3	meq/100g		0.09		SW6010B	10/16/07 10:34 / skd
Lime as CaCO3	7.4	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	3.2	mg/kg		1.0		ASA38-3	10/01/07 11:07 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.78	meq/100g		0.04		SW6010B	10/12/07 12:13 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	3.0	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-004
 Client Sample ID: T2/OAA-10-(24-36")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 DateReceived: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	0.68	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	34.5	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	4.6	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	5.19	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	1.11	meq/l		0.05		SW6010B	10/15/07 08:26 / skd
Magnesium, sat. paste	0.95	meq/l		0.08		SW6010B	10/15/07 08:26 / skd
Sodium, sat. paste	4.64	meq/l		0.04		SW6010B	10/15/07 08:26 / skd
Chloride, sat. paste	0.56	meq/L		0.03		SW6010B	10/15/07 08:26 / skd
PHYSICAL CHARACTERISTICS							
Sand	40	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	44	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	16	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	16.3	meq/100g		0.09		SW6010B	10/16/07 10:37 / skd
Lime as CaCO3	7.8	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.12	meq/100g		0.04		SW6010B	10/12/07 12:27 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	5.9	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-005
 Client Sample ID: T2/OAA-10-(36-60")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 DateReceived: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	2.65	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	42.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	3.33	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	7.35	meq/l		0.05		SW6010B	10/15/07 08:28 / skd
Magnesium, sat. paste	7.87	meq/l		0.08		SW6010B	10/15/07 08:28 / skd
Sodium, sat. paste	14.6	meq/l		0.04		SW6010B	10/15/07 08:28 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 08:28 / skd
PHYSICAL CHARACTERISTICS							
Sand	28	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	49	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	23	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	22.4	meq/100g		0.09		SW6010B	10/16/07 10:39 / skd
Lime as CaCO3	7.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.87	meq/100g		0.04		SW6010B	10/12/07 12:41 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	5.6	%		0.1		USDA20a	10/05/07 15:04 / jjm
METALS, WATER SOLUBLE							
Selenium	0.014	mg/kg		0.005		E270.3	10/20/07 10:22 / skd
METALS, CACL2 EXTRACTABLE							
Barium	0.28	mg/kg		0.20		SW6010B	10/10/07 10:02 / skd
Boron	0.42	mg/kg		0.20		SW6010B	10/10/07 10:02 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-006
 Client Sample ID: T2/OAA-10-(60-96")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 Date Received: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	3.17	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	39.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	3.50	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	6.17	meq/l		0.05		SW6010B	10/15/07 08:31 / skd
Magnesium, sat. paste	9.42	meq/l		0.08		SW6010B	10/15/07 08:31 / skd
Sodium, sat. paste	17.4	meq/l		0.04		SW6010B	10/15/07 08:31 / skd
Chloride, sat. paste	0.88	meq/L		0.03		SW6010B	10/15/07 08:31 / skd
PHYSICAL CHARACTERISTICS							
Sand	32	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	46	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	22	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	19.8	meq/100g		0.09		SW6010B	10/16/07 10:42 / skd
Lime as CaCO3	7.9	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.05	meq/100g		0.04		SW6010B	10/12/07 12:44 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.4	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	6.9	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - TierII (formerly referred to as AMPP)
 Lab ID: H07090277-007
 Client Sample ID: T2/OAA-10-(0-2")

Report Date: 11/01/07
 Collection Date: 09/19/07 17:00
 Date Received: 09/24/07
 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 15:04 / jjm
Conductivity, sat. paste	0.78	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	52.7	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.42	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	6.59	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.86	meq/l		0.05		SW6010B	10/15/07 08:34 / skd
Magnesium, sat. paste	1.83	meq/l		0.08		SW6010B	10/15/07 08:34 / skd
Sodium, sat. paste	0.77	meq/l		0.04		SW6010B	10/15/07 08:34 / skd
Chloride, sat. paste	0.56	meq/L		0.03		SW6010B	10/15/07 08:34 / skd
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	48	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	18	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	24.6	meq/100g		0.09		SW6010B	10/16/07 10:45 / skd
Lime as CaCO3	6.4	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.42	meq/100g		0.04		SW6010B	10/12/07 12:46 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	1.5	%		0.1		USDA20a	10/05/07 15:04 / jjm

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