



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-022
Client Sample ID: T2/BA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	11/17/09 08:56 / rrr
Conductivity, sat. paste	0.62	mmhos/cm		0.01		ASA10-3	11/18/09 08:34 / rrr
Saturation	47.9	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	3.55	meq/l		0.05		SW6010B	11/19/09 11:48 / sld
Magnesium, sat. paste	1.85	meq/l		0.08		SW6010B	11/19/09 11:48 / sld
Sodium, sat. paste	1.73	meq/l		0.04		SW6010B	11/19/09 11:48 / sld
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	5.23	meq/L		0.02		ASA10-3	12/08/09 18:29 / wj
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	56	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	24	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SiL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	128	mg/kg		1		ASA13-3	12/21/09 11:27 / sld
Cation Exchange Capacity	26.0	meq/100g		0.09		SW6010B	11/19/09 23:42 / sld
Organic Matter	2.29	%		0.02		ASA29-3	11/17/09 11:33 / sah
Lime as CaCO3	5.5	%		0.1		USDA23c	11/17/09 00:00 / sah
Phosphorus	13	mg/kg		0.1		ASA24-5	11/24/09 16:15 / stp
Nitrate as N, KCL Extract	16	mg/kg		1.0		ASA38-3	12/04/09 14:34 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.30	meq/100g		0.0044		SW6010B	12/03/09 14:18 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.8	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	0.76	mg/kg		0.10		E300.0	11/21/09 22:57 / hm
Sulfate, sat. paste	1.5	meq/L		0.021		E300.0	11/21/09 22:57 / hm
Chloride, sat. paste	0.35	meq/L		0.028		E300.0	11/21/09 22:57 / hm
METALS, DTPA EXTRACTABLE							
Zinc	1.11	mg/kg		0.02		SW6010B	12/17/09 18:46 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 11:51 / 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: H09110013-022
Client Sample ID: T2/BA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.1	mg/kg		0.20		SW6010B	12/04/09 13:24 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/04/09 13:24 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-023
Client Sample ID: T2/BA-10 (6-12") [6-12]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 08:57 / rrr
Conductivity, sat. paste	0.66	mmhos/cm		0.01		ASA10-3	11/18/09 08:35 / rrr
Saturation	46.0	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	3.01	meq/l		0.05		SW6010B	11/19/09 11:50 / sld
Magnesium, sat. paste	1.74	meq/l		0.08		SW6010B	11/19/09 11:50 / sld
Sodium, sat. paste	1.96	meq/l		0.04		SW6010B	11/19/09 11:50 / sld
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.69	meq/L		0.02		ASA10-3	12/08/09 18:35 / wj
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	54	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	26	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SiL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.6	meq/100g		0.09		SW6010B	11/19/09 23:44 / sld
Lime as CaCO3	5.9	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	6.6	mg/kg		1.0		ASA38-3	12/04/09 13:44 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.39	meq/100g		0.0044		SW6010B	12/03/09 14:20 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	3.3	meq/L		0.021		E300.0	11/21/09 23:13 / hm
Chloride, sat. paste	0.21	meq/L		0.028		E300.0	11/21/09 23:13 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-024
Client Sample ID: T2/BA-10 (12-24") [12-24]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 08:58 / rrr
Conductivity, sat. paste	0.83	mmhos/cm		0.01		ASA10-3	11/18/09 08:36 / rrr
Saturation	42.0	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	3.62	meq/l		0.05		SW6010B	11/19/09 11:58 / sld
Magnesium, sat. paste	2.64	meq/l		0.08		SW6010B	11/19/09 11:58 / sld
Sodium, sat. paste	3.43	meq/l		0.04		SW6010B	11/19/09 11:58 / sld
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.10	meq/L		0.02		ASA10-3	12/08/09 18:41 / wj
PHYSICAL CHARACTERISTICS							
Sand	28	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	54	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	18	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SiL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	19.4	meq/100g		0.09		SW6010B	11/19/09 23:47 / sld
Lime as CaCO3	6.1	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	6.2	mg/kg		1.0		ASA38-3	12/04/09 13:46 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.59	meq/100g		0.0044		SW6010B	12/03/09 14:23 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	2.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	7.1	meq/L		0.021		E300.0	11/21/09 23:30 / hm
Chloride, sat. paste	0.20	meq/L		0.028		E300.0	11/21/09 23:30 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-025
Client Sample ID: T2/BA-10 (24-36") [24-36]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 08:59 / rrr
Conductivity, sat. paste	1.34	mmhos/cm		0.01		ASA10-3	11/18/09 08:37 / rrr
Saturation	35.9	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	5.63	meq/l		0.05		SW6010B	11/19/09 12:01 / sld
Magnesium, sat. paste	4.71	meq/l		0.08		SW6010B	11/19/09 12:01 / sld
Sodium, sat. paste	5.92	meq/l		0.04		SW6010B	11/19/09 12:01 / sld
Sodium Adsorption Ratio (SAR)	2.6	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.42	meq/L		0.02		ASA10-3	12/08/09 18:47 / wj
PHYSICAL CHARACTERISTICS							
Sand	44	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	40	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	16	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	15.4	meq/100g		0.09		SW6010B	11/19/09 23:50 / sld
Lime as CaCO3	5.7	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.73	meq/100g		0.0044		SW6010B	12/03/09 14:25 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	3.4	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.24	meq/L		0.028		E300.0	11/21/09 23:46 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-026
Client Sample ID: T2/BA-10 (36-60") [36-60]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 09:00 / rrr
Conductivity, sat. paste	1.57	mmhos/cm		0.01		ASA10-3	11/18/09 08:38 / rrr
Saturation	34.0	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	6.19	meq/l		0.05		SW6010B	11/19/09 12:03 / sld
Magnesium, sat. paste	4.99	meq/l		0.08		SW6010B	11/19/09 12:03 / sld
Sodium, sat. paste	6.47	meq/l		0.04		SW6010B	11/19/09 12:03 / sld
Sodium Adsorption Ratio (SAR)	2.7	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.39	meq/L		0.02		ASA10-3	12/08/09 18:52 / wj
PHYSICAL CHARACTERISTICS							
Sand	46	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	28	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	26	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	14.7	meq/100g		0.09		SW6010B	11/19/09 23:58 / sld
Lime as CaCO3	5.5	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.72	meq/100g		0.0044		SW6010B	12/03/09 14:28 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	3.4	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	0.88	mg/kg		0.10		E300.0	11/22/09 00:02 / hm
Chloride, sat. paste	0.57	meq/L		0.028		E300.0	11/22/09 00:02 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 11:53 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	0.25	mg/kg		0.20		SW6010B	12/04/09 13:27 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/04/09 13:27 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-027
Client Sample ID: T2/BA-10 (60-96") [60-96]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 09:00 / rrr
Conductivity, sat. paste	0.87	mmhos/cm		0.01		ASA10-3	11/18/09 08:38 / rrr
Saturation	28.1	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	2.83	meq/l		0.05		SW6010B	11/19/09 12:06 / sld
Magnesium, sat. paste	2.09	meq/l		0.08		SW6010B	11/19/09 12:06 / sld
Sodium, sat. paste	4.31	meq/l		0.04		SW6010B	11/19/09 12:06 / sld
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.23	meq/L		0.02		ASA10-3	12/08/09 18:58 / wj
PHYSICAL CHARACTERISTICS							
Sand	66	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	24	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	10	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	7.20	meq/100g		0.09		SW6010B	11/20/09 00:00 / sld
Lime as CaCO3	5.2	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.50	meq/100g		0.0044		SW6010B	12/03/09 14:31 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	5.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.44	meq/L		0.028		E300.0	11/22/09 00:19 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-028
Client Sample ID: T2/BA-10 (0-2") [0-2]

Report Date: 12/22/09
Collection Date: 10/28/09 17:00
Date Received: 11/02/09
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	11/17/09 09:01 / rrr
Conductivity, sat. paste	0.65	mmhos/cm		0.01		ASA10-3	11/18/09 08:39 / rrr
Saturation	49.3	%		0.1		USDA27a	11/17/09 08:10 / wj
Calcium, sat. paste	4.13	meq/l		0.05		SW6010B	11/19/09 12:08 / sld
Magnesium, sat. paste	2.21	meq/l		0.08		SW6010B	11/19/09 12:08 / sld
Sodium, sat. paste	1.49	meq/l		0.04		SW6010B	11/19/09 12:08 / sld
Sodium Adsorption Ratio (SAR)	0.84	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	7.14	meq/L		0.02		ASA10-3	12/08/09 19:04 / wj
PHYSICAL CHARACTERISTICS							
Sand	22	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	54	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	24	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SiL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	25.2	meq/100g		0.09		SW6010B	11/20/09 00:08 / sld
Lime as CaCO3	5.4	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.24	meq/100g		0.0044		SW6010B	12/03/09 14:39 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.7	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.22	meq/L		0.028		E300.0	11/22/09 00:35 / hm

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