



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-043
Client Sample ID: T2/YBA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/29/09 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 09:14 / rrr
Conductivity, sat. paste	0.56	mmhos/cm		0.01		ASA10-3	11/18/09 08:52 / rrr
Saturation	50.0	%		0.1		USDA27a	11/17/09 08:13 / wj
Calcium, sat. paste	3.42	meq/l		0.05		SW6010B	11/19/09 13:03 / sld
Magnesium, sat. paste	1.38	meq/l		0.08		SW6010B	11/19/09 13:03 / sld
Sodium, sat. paste	1.74	meq/l		0.04		SW6010B	11/19/09 13:03 / sld
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	5.29	meq/L		0.02		ASA10-3	12/08/09 21:14 / wj
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	60	%		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							
Potassium, NH4OAc Extractable	148	mg/kg		1		ASA13-3	12/21/09 11:40 / sld
Cation Exchange Capacity	26.8	meq/100g		0.09		SW6010B	11/20/09 01:03 / sld
Organic Matter	2.06	%		0.02		ASA29-3	11/17/09 11:33 / sah
Lime as CaCO3	6.4	%		0.1		USDA23c	11/17/09 00:00 / sah
Phosphorus	12	mg/kg		0.1		ASA24-5	11/24/09 16:19 / stp
Nitrate as N, KCL Extract	18	mg/kg		1.0		ASA38-3	12/04/09 14:42 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.30	meq/100g		0.0044		SW6010B	12/03/09 15:38 / 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	1.0	mg/kg		0.10		E300.0	11/22/09 06:53 / hm
Sulfate, sat. paste	1.1	meq/L		0.021		E300.0	11/22/09 06:53 / hm
Chloride, sat. paste	0.34	meq/L		0.028		E300.0	11/22/09 06:53 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.92	mg/kg		0.02		SW6010B	12/17/09 19:01 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 12:05 / eau

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: H09110013-043
Client Sample ID: T2/YBA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.2	mg/kg		0.20		SW6010B	12/04/09 13:46 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/04/09 13:46 / 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: H09110013-044
Client Sample ID: T2/YBA-10 (6-12") [6-12]

Report Date: 12/22/09
Collection Date: 10/29/09 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 09:16 / rrr
Conductivity, sat. paste	0.58	mmhos/cm		0.01		ASA10-3	11/18/09 08:52 / rrr
Saturation	49.0	%		0.1		USDA27a	11/17/09 08:23 / wj
Calcium, sat. paste	2.96	meq/l		0.05		SW6010B	11/19/09 13:06 / sld
Magnesium, sat. paste	1.39	meq/l		0.08		SW6010B	11/19/09 13:06 / sld
Sodium, sat. paste	2.20	meq/l		0.04		SW6010B	11/19/09 13:06 / sld
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.84	meq/L		0.02		ASA10-3	12/08/09 21:20 / wj
PHYSICAL CHARACTERISTICS							
Sand	12	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	62	%		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	27.2	meq/100g		0.09		SW6010B	11/20/09 01:06 / sld
Lime as CaCO3	6.4	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	6.9	mg/kg		1.0		ASA38-3	12/04/09 14:16 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.59	meq/100g		0.0044		SW6010B	12/03/09 15:41 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	1.8	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	2.5	meq/L		0.021		E300.0	11/22/09 07:09 / hm
Chloride, sat. paste	0.39	meq/L		0.028		E300.0	11/22/09 07:09 / 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: H09110013-045
Client Sample ID: T2/YBA-10 (12-24") [12-24]

Report Date: 12/22/09
Collection Date: 10/29/09 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	7.9	s.u.		0.1		ASAM10-3.2	11/17/09 09:16 / rrr
Conductivity, sat. paste	2.06	mmhos/cm		0.01		ASA10-3	11/18/09 08:53 / rrr
Saturation	44.8	%		0.1		USDA27a	11/17/09 08:23 / wj
Calcium, sat. paste	7.83	meq/l		0.05		SW6010B	11/19/09 13:08 / sld
Magnesium, sat. paste	6.22	meq/l		0.08		SW6010B	11/19/09 13:08 / sld
Sodium, sat. paste	9.64	meq/l		0.04		SW6010B	11/19/09 13:08 / sld
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.40	meq/L		0.02		ASA10-3	12/08/09 21:26 / wj
PHYSICAL CHARACTERISTICS							
Sand	16	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	60	%		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	22.0	meq/100g		0.09		SW6010B	11/20/09 01:09 / sld
Lime as CaCO3	7.5	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	5.2	mg/kg		1.0		ASA38-3	12/04/09 14:18 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.4	meq/100g		0.0044		SW6010B	12/03/09 15:44 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	4.5	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	22	meq/L		0.021		E300.0	11/22/09 07:42 / hm
Chloride, sat. paste	1.6	meq/L		0.028		E300.0	11/22/09 07:42 / 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: H09110013-046
Client Sample ID: T2/YBA-10 (24-36") [24-36]

Report Date: 12/22/09
Collection Date: 10/29/09 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	7.9	s.u.		0.1		ASAM10-3.2	11/17/09 09:17 / rrr
Conductivity, sat. paste	3.15	mmhos/cm		0.01		ASA10-3	11/18/09 08:53 / rrr
Saturation	45.8	%		0.1		USDA27a	11/17/09 08:23 / wj
Calcium, sat. paste	10.1	meq/l		0.05		SW6010B	11/19/09 13:21 / sld
Magnesium, sat. paste	8.14	meq/l		0.08		SW6010B	11/19/09 13:21 / sld
Sodium, sat. paste	17.8	meq/l		0.04		SW6010B	11/19/09 13:21 / sld
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	1.87	meq/L		0.02		ASA10-3	12/08/09 21:32 / wj
PHYSICAL CHARACTERISTICS							
Sand	16	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	62	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	22	%		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	23.8	meq/100g		0.09		SW6010B	11/20/09 01:11 / sld
Lime as CaCO3	6.5	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.3	meq/100g		0.0044		SW6010B	12/03/09 15:51 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.5	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	6.1	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	2.9	meq/L		0.028		E300.0	11/22/09 07:59 / 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: H09110013-047
Client Sample ID: T2/YBA-10 (36-60") [36-60]

Report Date: 12/22/09
Collection Date: 10/29/09 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 09:18 / rrr
Conductivity, sat. paste	1.86	mmhos/cm		0.01		ASA10-3	11/18/09 08:54 / rrr
Saturation	51.2	%		0.1		USDA27a	11/17/09 08:23 / wj
Calcium, sat. paste	2.97	meq/l		0.05		SW6010B	11/19/09 13:24 / sld
Magnesium, sat. paste	2.20	meq/l		0.08		SW6010B	11/19/09 13:24 / sld
Sodium, sat. paste	13.5	meq/l		0.04		SW6010B	11/19/09 13:24 / sld
Sodium Adsorption Ratio (SAR)	8.4	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.64	meq/L		0.02		ASA10-3	12/08/09 21:37 / wj
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	60	%		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	27.5	meq/100g		0.09		SW6010B	11/20/09 01:14 / sld
Lime as CaCO3	6.0	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.1	meq/100g		0.0044		SW6010B	12/03/09 15:54 / sld
EXCHANGEABLES							
Exchangeable Sodium	2.4	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	8.8	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	1.2	mg/kg		0.10		E300.0	11/22/09 08:15 / hm
Chloride, sat. paste	0.83	meq/L		0.028		E300.0	11/22/09 08:15 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 12:06 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	12/04/09 13:49 / sld
Boron	0.45	mg/kg		0.20		SW6010B	12/04/09 13:49 / 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: H09110013-048
Client Sample ID: T2/YBA-10 (60-96") [60-96]

Report Date: 12/22/09
Collection Date: 10/29/09 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	8.3	s.u.		0.1		ASAM10-3.2	11/17/09 09:19 / rrr
Conductivity, sat. paste	1.91	mmhos/cm		0.01		ASA10-3	11/18/09 08:54 / rrr
Saturation	54.8	%		0.1		USDA27a	11/17/09 08:24 / wj
Calcium, sat. paste	1.64	meq/l		0.05		SW6010B	11/19/09 13:26 / sld
Magnesium, sat. paste	1.33	meq/l		0.08		SW6010B	11/19/09 13:26 / sld
Sodium, sat. paste	15.4	meq/l		0.04		SW6010B	11/19/09 13:26 / sld
Sodium Adsorption Ratio (SAR)	13	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.54	meq/L		0.02		ASA10-3	12/08/09 21:43 / 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	27.0	meq/100g		0.09		SW6010B	11/20/09 01:17 / sld
Lime as CaCO3	6.0	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	5.1	meq/100g		0.0044		SW6010B	12/03/09 15:57 / sld
EXCHANGEABLES							
Exchangeable Sodium	4.2	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	16	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.53	meq/L		0.028		E300.0	11/22/09 08:31 / 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: H09110013-049
Client Sample ID: T2/YBA-10 (0-2") [0-2]

Report Date: 12/22/09
Collection Date: 10/29/09 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 09:20 / rrr
Conductivity, sat. paste	0.56	mmhos/cm		0.01		ASA10-3	11/18/09 08:54 / rrr
Saturation	49.4	%		0.1		USDA27a	11/17/09 08:24 / wj
Calcium, sat. paste	3.60	meq/l		0.05		SW6010B	11/19/09 13:29 / sld
Magnesium, sat. paste	1.32	meq/l		0.08		SW6010B	11/19/09 13:29 / sld
Sodium, sat. paste	1.42	meq/l		0.04		SW6010B	11/19/09 13:29 / sld
Sodium Adsorption Ratio (SAR)	0.91	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	5.54	meq/L		0.02		ASA10-3	12/08/09 21:49 / wj
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	58	%		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	28.6	meq/100g		0.09		SW6010B	11/20/09 01:19 / sld
Lime as CaCO3	6.0	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.25	meq/100g		0.0044		SW6010B	12/03/09 15:59 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.6	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.22	meq/L		0.028		E300.0	11/22/09 08:48 / hm

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

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