



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: Tier II
Lab ID: H06120136-057
Client Sample ID: T2/LA-10 (0-6")

Report Date: 01/17/07
Collection Date: 12/13/06 17:00
Date Received: 12/15/06
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.1	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.07	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	51.9	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	6.89	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	6.33	meq/l		0.05		SW6010B	01/08/07 12:58 / rp
Magnesium, sat. paste	2.72	meq/l		0.08		SW6010B	01/08/07 12:58 / rp
Sodium, sat. paste	2.97	meq/l		0.04		SW6010B	01/08/07 12:58 / rp
Sulfate, sat. paste	3.46	meq/L		0.02		SW6010B	01/08/07 12:58 / rp
Chloride, sat. paste	0.46	meq/L		0.03		SW6010B	01/08/07 12:58 / rp
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	49	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	17	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Potassium, NH4OAc Extractable	231	meq/100g		1		ASA13-3	01/11/07 16:07 / rp
Organic Matter	3.42	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	31.6	meq/100g		0.09		SW6010B	01/12/07 16:17 / rp
Lime as CaCO3	6.3	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	26	mg/kg		0.1		ASA24-5	01/05/07 14:10 / sld
Nitrate as N, KCL Extract	5.0	mg/kg		1.0		ASA38-3	01/08/07 13:26 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.80	meq/100g		0.04		SW6010B	01/11/07 16:07 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	2.1	%		0.1		USDA20a	01/04/07 12:21 / jjm
METALS, DTPA EXTRACTABLE							
Zinc	1.49	mg/kg		0.02		SW6010B	01/04/07 16:50 / rp
METALS, CACL2 EXTRACTABLE							
Barium	0.60	mg/kg		0.20		SW6010B	01/04/07 15:09 / rp
Boron	0.22	mg/kg		0.20		SW6010B	01/04/07 15:09 / rp

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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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Selenium	0.068	mg/kg		0.010		SW6010B	01/04/07 15:09 / rp

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



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: Tier II
Lab ID: H06120136-058
Client Sample ID: T2/LA-10 (6-12")

Report Date: 01/17/07
Collection Date: 12/13/06 17:00
Date Received: 12/15/06
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	01/04/07 12:21 / jjm
Conductivity, sat. paste	3.00	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	49.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.46	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	21.0	meq/l		0.05		SW6010B	01/08/07 13:01 / rp
Magnesium, sat. paste	12.6	meq/l		0.08		SW6010B	01/08/07 13:01 / rp
Sodium, sat. paste	5.12	meq/l		0.04		SW6010B	01/08/07 13:01 / rp
Sulfate, sat. paste	33.5	meq/L		0.02		SW6010B	01/08/07 13:01 / rp
Chloride, sat. paste	1.34	meq/L		0.03		SW6010B	01/08/07 13:01 / rp
PHYSICAL CHARACTERISTICS							
Sand	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	50	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	21	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiL	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	33.0	meq/100g		0.09		SW6010B	01/12/07 16:20 / rp
Lime as CaCO3	7.0	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	4.2	mg/kg		1.0		ASA38-3	01/08/07 13:28 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.92	meq/100g		0.04		SW6010B	01/11/07 16:10 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	2.0	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: Tier II
Lab ID: H06120136-059
Client Sample ID: T2/LA-10 (12-24")

Report Date: 01/17/07
Collection Date: 12/13/06 17:00
Date Received: 12/15/06
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	01/04/07 12:21 / jjm
Conductivity, sat. paste	4.26	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	46.7	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	5.27	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	25.7	meq/l		0.05		SW6010B	01/08/07 13:04 / rp
Magnesium, sat. paste	21.5	meq/l		0.08		SW6010B	01/08/07 13:04 / rp
Sodium, sat. paste	17.6	meq/l		0.04		SW6010B	01/08/07 13:04 / rp
Sulfate, sat. paste	61.9	meq/L		0.02		SW6010B	01/08/07 13:04 / rp
Chloride, sat. paste	0.86	meq/L		0.03		SW6010B	01/08/07 13:04 / rp
PHYSICAL CHARACTERISTICS							
Sand	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	52	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	21	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiL	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	29.5	meq/100g		0.09		SW6010B	01/12/07 16:23 / rp
Lime as CaCO3	7.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	4.4	mg/kg		1.0		ASA38-3	01/08/07 13:30 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.94	meq/100g		0.04		SW6010B	01/11/07 16:13 / rp
EXCHANGEABLES							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.8	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: Tier II
 Lab ID: H06120136-060
 Client Sample ID: T2/LA-10 (24-36")

Report Date: 01/17/07
 Collection Date: 12/13/06 17:00
 Date Received: 12/15/06
 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	01/04/07 12:21 / jjm
Conductivity, sat. paste	5.97	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	45.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.43	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	22.7	meq/l		0.05		SW6010B	01/08/07 13:07 / rp
Magnesium, sat. paste	28.3	meq/l		0.08		SW6010B	01/08/07 13:07 / rp
Sodium, sat. paste	33.0	meq/l		0.04		SW6010B	01/08/07 13:07 / rp
Chloride, sat. paste	1.67	meq/L		0.03		SW6010B	01/08/07 13:07 / rp
PHYSICAL CHARACTERISTICS							
Sand	36	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	45	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	19	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	26.4	meq/100g		0.09		SW6010B	01/12/07 16:26 / rp
Lime as CaCO3	7.3	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.00	meq/100g		0.04		SW6010B	01/11/07 16:16 / rp
EXCHANGEABLES							
Exchangeable Sodium	1.5	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	5.7	%		0.1		USDA20a	01/04/07 12:21 / jjm

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: Tier II
 Lab ID: H06120136-061
 Client Sample ID: T2/LA-10 (36-60")

Report Date: 01/17/07
 Collection Date: 12/13/06 17:00
 Date Received: 12/15/06
 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	01/04/07 12:21 / jjm
Conductivity, sat. paste	4.20	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	37.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	4.9	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.16	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	13.7	meq/l		0.05		SW6010B	01/08/07 13:13 / rp
Magnesium, sat. paste	19.5	meq/l		0.08		SW6010B	01/08/07 13:13 / rp
Sodium, sat. paste	20.0	meq/l		0.04		SW6010B	01/08/07 13:13 / rp
Chloride, sat. paste	0.36	meq/L		0.03		SW6010B	01/08/07 13:13 / rp
PHYSICAL CHARACTERISTICS							
Sand	49	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	34	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	17	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Cation Exchange Capacity	22.6	meq/100g		0.09		SW6010B	01/12/07 16:32 / rp
Lime as CaCO3	6.8	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.94	meq/100g		0.04		SW6010B	01/12/07 08:44 / rp
EXCHANGEABLES							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	5.3	%		0.1		USDA20a	01/04/07 12:21 / jjm
METALS, CACL2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	01/04/07 15:12 / rp
Boron	0.21	mg/kg		0.20		SW6010B	01/04/07 15:12 / rp
Selenium	0.063	mg/kg		0.010		SW6010B	01/04/07 15:12 / rp

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: Tier II
 Lab ID: H06120136-062
 Client Sample ID: T2/LA-10 (60-96")

Report Date: 01/17/07
 Collection Date: 12/13/06 17:00
 Date Received: 12/15/06
 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	01/04/07 12:21 / jjm
Conductivity, sat. paste	3.14	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	29.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	4.3	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.64	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	7.33	meq/l		0.05		SW6010B	01/08/07 13:22 / rp
Magnesium, sat. paste	11.4	meq/l		0.08		SW6010B	01/08/07 13:22 / rp
Sodium, sat. paste	13.2	meq/l		0.04		SW6010B	01/08/07 13:22 / rp
Chloride, sat. paste	0.17	meq/L		0.03		SW6010B	01/08/07 13:22 / rp
PHYSICAL CHARACTERISTICS							
Sand	70	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	21	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	9	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SL	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	17.2	meq/100g		0.09		SW6010B	01/12/07 16:35 / rp
Lime as CaCO3	7.1	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.14	meq/100g		0.04		SW6010B	01/12/07 08:47 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.4	%		0.1		USDA20a	01/04/07 12:21 / jjm

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: Tier II
 Lab ID: H06120136-063
 Client Sample ID: T2/LA-10 (0-2")

Report Date: 01/17/07
 Collection Date: 12/13/06 17:00
 Date Received: 12/15/06
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.1	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.38	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	58.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	0.82	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	8.11	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	8.51	meq/l		0.05		SW6010B	01/08/07 13:25 / rp
Magnesium, sat. paste	3.16	meq/l		0.08		SW6010B	01/08/07 13:25 / rp
Sodium, sat. paste	1.99	meq/l		0.04		SW6010B	01/08/07 13:25 / rp
Chloride, sat. paste	0.48	meq/L		0.03		SW6010B	01/08/07 13:25 / rp
PHYSICAL CHARACTERISTICS							
Sand	37	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	46	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	17	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	35.1	meq/100g		0.09		SW6010B	01/12/07 16:38 / rp
Lime as CaCO3	6.3	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.59	meq/100g		0.04		SW6010B	01/12/07 08:50 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	01/04/07 12:21 / jjm

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

MCL - Maximum contaminant level.
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