



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: Tier II
Lab ID: H06120136-022
Client Sample ID: T2/DB-10 (0-6")

Report Date: 01/17/07
Collection Date: 12/12/06 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	0.80	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	56.9	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.66	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	3.27	meq/l		0.05		SW6010B	01/08/07 10:36 / rp
Magnesium, sat. paste	2.09	meq/l		0.08		SW6010B	01/08/07 10:36 / rp
Sodium, sat. paste	2.44	meq/l		0.04		SW6010B	01/08/07 10:36 / rp
Sulfate, sat. paste	2.18	meq/L		0.02		SW6010B	01/08/07 10:36 / rp
Chloride, sat. paste	0.13	meq/L		0.03		SW6010B	01/08/07 10:36 / rp
PHYSICAL CHARACTERISTICS							
Sand	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	42	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	31	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	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	212	meq/100g		1		ASA13-3	01/10/07 16:42 / rp
Organic Matter	2.69	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	38.5	meq/100g		0.09		SW6010B	01/12/07 13:55 / rp
Lime as CaCO3	4.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	8.9	mg/kg		0.1		ASA24-5	01/05/07 14:01 / sld
Nitrate as N, KCL Extract	11	mg/kg		1.0		ASA38-3	01/08/07 14:16 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.89	meq/100g		0.04		SW6010B	01/10/07 16:42 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.9	%		0.1		USDA20a	01/04/07 12:21 / jjm
METALS, DTPA EXTRACTABLE							
Zinc	2.86	mg/kg		0.02		SW6010B	01/04/07 16:30 / rp
METALS, CACL2 EXTRACTABLE							
Barium	0.93	mg/kg		0.20		SW6010B	01/04/07 14:28 / rp
Boron	0.38	mg/kg		0.20		SW6010B	01/04/07 14:28 / 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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Date Received: 12/15/06
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Selenium	0.059	mg/kg		0.010		SW6010B	01/04/07 14:28 / 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: H06120136-023
Client Sample ID: T2/DB-10 (6-12")

Report Date: 01/17/07
Collection Date: 12/12/06 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	1.09	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	52.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.45	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	3.81	meq/l		0.05		SW6010B	01/08/07 10:39 / rp
Magnesium, sat. paste	2.40	meq/l		0.08		SW6010B	01/08/07 10:39 / rp
Sodium, sat. paste	3.94	meq/l		0.04		SW6010B	01/08/07 10:39 / rp
Sulfate, sat. paste	5.67	meq/L		0.02		SW6010B	01/08/07 10:39 / rp
Chloride, sat. paste	0.21	meq/L		0.03		SW6010B	01/08/07 10:39 / rp
PHYSICAL CHARACTERISTICS							
Sand	22	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	49	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	27.2	meq/100g		0.09		SW6010B	01/12/07 13:58 / rp
Lime as CaCO3	4.7	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	6.5	mg/kg		1.0		ASA38-3	01/08/07 12:46 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.20	meq/100g		0.04		SW6010B	01/10/07 16:45 / rp
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.6	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: Tier II
 Lab ID: H06120136-024
 Client Sample ID: T2/DB-10 (12-24")

Report Date: 01/17/07
 Collection Date: 12/12/06 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	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.82	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	39.6	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	3.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.24	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	5.99	meq/l		0.05		SW6010B	01/08/07 10:42 / rp
Magnesium, sat. paste	4.38	meq/l		0.08		SW6010B	01/08/07 10:42 / rp
Sodium, sat. paste	7.25	meq/l		0.04		SW6010B	01/08/07 10:42 / rp
Sulfate, sat. paste	14.0	meq/L		0.02		SW6010B	01/08/07 10:42 / rp
Chloride, sat. paste	0.07	meq/L		0.03		SW6010B	01/08/07 10:42 / rp
PHYSICAL CHARACTERISTICS							
Sand	41	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	38	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	21	%		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	23.0	meq/100g		0.09		SW6010B	01/12/07 14:01 / rp
Lime as CaCO3	7.7	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	4.9	mg/kg		1.0		ASA38-3	01/08/07 12:48 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.04	meq/100g		0.04		SW6010B	01/10/07 16:48 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.3	%		0.1		USDA20a	01/04/07 12:21 / jjm

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 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: Tier II
 Lab ID: H06120136-025
 Client Sample ID: T2/DB-10 (24-36")

Report Date: 01/17/07
 Collection Date: 12/12/06 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	2.28	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	33.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	3.3	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.57	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	8.39	meq/l		0.05		SW6010B	01/08/07 10:45 / rp
Magnesium, sat. paste	6.43	meq/l		0.08		SW6010B	01/08/07 10:45 / rp
Sodium, sat. paste	9.04	meq/l		0.04		SW6010B	01/08/07 10:45 / rp
Chloride, sat. paste	0.54	meq/L		0.03		SW6010B	01/08/07 10:45 / rp
PHYSICAL CHARACTERISTICS							
Sand	51	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	39	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	10	%		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	23.7	meq/100g		0.09		SW6010B	01/12/07 14:04 / rp
Lime as CaCO3	7.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.03	meq/100g		0.04		SW6010B	01/10/07 16:51 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.0	%		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: H06120136-026
Client Sample ID: T2/DB-10 (36-60")

Report Date: 01/17/07
Collection Date: 12/12/06 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	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	2.66	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	29.7	%		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	2.03	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	7.11	meq/l		0.05		SW6010B	01/08/07 10:48 / rp
Magnesium, sat. paste	6.96	meq/l		0.08		SW6010B	01/08/07 10:48 / rp
Sodium, sat. paste	11.4	meq/l		0.04		SW6010B	01/08/07 10:48 / rp
Chloride, sat. paste	0.46	meq/L		0.03		SW6010B	01/08/07 10:48 / rp
PHYSICAL CHARACTERISTICS							
Sand	64	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	30	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	6	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SL	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	18.1	meq/100g		0.09		SW6010B	01/12/07 14:06 / rp
Lime as CaCO3	6.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.07	meq/100g		0.04		SW6010B	01/10/07 17:00 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.0	%		0.1		USDA20a	01/04/07 12:21 / jjm
METALS, CACL2 EXTRACTABLE							
Barium	0.24	mg/kg		0.20		SW6010B	01/04/07 14:31 / rp
Boron	0.30	mg/kg		0.20		SW6010B	01/04/07 14:31 / rp
Selenium	0.060	mg/kg		0.010		SW6010B	01/04/07 14:31 / rp

Report RL - Analyte reporting limit.
Definitions: 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: H06120136-027
 Client Sample ID: T2/DB-10 (60-96")

Report Date: 01/17/07
 Collection Date: 12/12/06 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	7.9	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	30.2	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	8.5	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.97	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	5.02	meq/l		0.05		SW6010B	01/08/07 10:51 / rp
Magnesium, sat. paste	6.48	meq/l		0.08		SW6010B	01/08/07 10:51 / rp
Sodium, sat. paste	20.3	meq/l		0.04		SW6010B	01/08/07 10:51 / rp
Chloride, sat. paste	0.31	meq/L		0.03		SW6010B	01/08/07 10:51 / rp
PHYSICAL CHARACTERISTICS							
Sand	65	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	30	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	5	%		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	15.8	meq/100g		0.09		SW6010B	01/12/07 14:09 / rp
Lime as CaCO3	6.2	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.69	meq/100g		0.04		SW6010B	01/10/07 17:03 / rp
EXCHANGEABLES							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	6.8	%		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: H06120136-028
 Client Sample ID: T2/DB-10 (0-2")

Report Date: 01/17/07
 Collection Date: 12/12/06 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	6.8	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.97	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	66.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	7.71	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
SATURATED PASTE							
Calcium, sat. paste	4.89	meq/l		0.05		SW6010B	01/08/07 11:00 / rp
Magnesium, sat. paste	3.17	meq/l		0.08		SW6010B	01/08/07 11:00 / rp
Sodium, sat. paste	2.27	meq/l		0.04		SW6010B	01/08/07 11:00 / rp
Chloride, sat. paste	0.04	meq/L		0.03		SW6010B	01/08/07 11:00 / rp
PHYSICAL CHARACTERISTICS							
Sand	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	38	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	35	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	46.7	meq/100g		0.09		SW6010B	01/12/07 14:12 / rp
Lime as CaCO3	4.0	%		0.1		USDA23c	01/08/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.87	meq/100g		0.04		SW6010B	01/10/07 17:06 / rp
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.5	%		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.