

ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B-3P6

Date Received: 2006/05/24
Date Sampled: 2006/05/18
Report Date: 2009/02/11

Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6438 BR2-Ck	06-6439 BR3-Ah	06-6440 BR3-Bt	06-6441 BR3-BC	06-6442 BR3-C
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	6.40	7.03	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	34	24	16	36	30
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	30	42	16	28	26
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	36	34	68	36	44
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	8.07	---	---	6.73	6.97
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.332	---	---	0.150	0.208
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	1.83	---	---	0.73	0.83
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	0.97	---	---	0.33	0.48
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.19	---	---	0.08	0.10
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	0.57	---	---	0.26	0.42
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	53.9	---	---	39.2	44.6
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	19.8	---	---	5.76	7.45
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	6.32	---	---	1.55	2.61
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	3.93	---	---	1.19	1.69
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	7.01	---	---	2.35	4.28
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.48	---	---	0.36	0.52

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Brenda Chomin, P.Chem
 Senior Environmental Chemist
 Laboratory Services

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6443 BR4-C(II)	06-6444 BR10-Bt	06-6445 BR10-Bnt	06-6445-D BR10-Bnt Duplicate	06-6446 BR10-(I)Ck
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	8.11	---	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	10	4	6	6	< 1
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	18	26	28	28	14
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	72	70	66	66	90
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	8.65	---	8.24	8.52	8.80
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	1.68	---	10.4	10.2	2.44
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	1.38	---	19.0	19.1	0.50
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	0.90	---	16.8	16.5	0.49
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.27	---	0.47	0.45	0.09
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	12.0	---	92.3	90.4	19.4
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	102	---	78.2	79.6	202
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	28.2	---	298	304	20.1
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	11.1	---	160	160	11.9
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	10.9	---	14.2	14.0	6.77
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	281	---	1660	1660	898
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	11.2	---	21.8	21.4	27.6

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6447 BR11-Ah	06-6448 BR11-Btgi	06-6449 BR11-Bnt	06-6450 BR11-Ck	06-6451 BR11-(II)C
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	6.90	8.03	8.00	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	18	16	10	< 1	12
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	38	34	22	16	16
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	44	50	68	86	72
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	---	8.49	8.88
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	---	---	11.1	1.46
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	---	---	17.2	0.42
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	---	---	14.8	0.25
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	---	---	0.82	0.08
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	---	---	143	11.6
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	---	---	121	434
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	---	---	418	36.4
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	---	218	13.0
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	---	---	38.7	14.3
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	---	---	3990	1160
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	---	35.8	20.2

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6452 BR12-Bntk	06-6453 BR12-Ck	06-6454 BR16-Bg	06-6455 BR16-Ck	06-6456 BR17-Bnt
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	8.68	---	8.05	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	30	18	8	< 1	14
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	26	32	26	17	31
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	44	50	66	85	55
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	8.68	---	8.27	8.77
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	1.32	---	2.19	1.50
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	0.81	---	2.19	1.03
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	0.49	---	1.15	0.41
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	0.14	---	0.06	0.07
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	10.3	---	16.2	12.9
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	61.3	---	88.1	129
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	9.89	---	38.7	26.7
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	3.64	---	12.3	6.34
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	3.46	---	2.00	3.66
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	145	---	329	382
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	12.8	---	12.6	15.2

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6457 BR17-Csk	06-6458 BR19-Ah	06-6459 BR19-Bt	06-6460 BR19-(I)C	06-6461 BR19-(II)Ck
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	6.46	6.60	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	25.7	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	25.3	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	4.71	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	0.16	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	0.13	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	12	32	34	31	32
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	33	53	30	33	28
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	55	15	36	36	40
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	9.06	---	---	6.84	7.70
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	1.06	---	---	0.314	0.309
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	0.38	---	---	1.17	0.73
LD	2006/06/14	Magnesium	meq/L	McKeague 3.21	0.01	0.22	---	---	0.71	0.50
LD	2006/06/14	Potassium	meq/L	McKeague 3.21	0.01	0.14	---	---	0.08	0.06
LD	2006/06/14	Sodium	meq/L	McKeague 3.21	0.01	10.6	---	---	1.04	1.32
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	237	---	---	47.8	50.3
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	18.0	---	---	11.2	7.38
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	6.28	---	---	4.15	3.03
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	12.9	---	---	1.50	1.13
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	576	---	---	11.4	15.3
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	19.4	---	---	1.07	1.69

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6462 BR20-Ck	06-6463 BR21-Bnt	06-6464 BR21-Ck	06-6465 BR22-Bnt	06-6466 BR22-BC
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	8.90	---	7.32	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	40	28	37	35	32
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	26	32	29	25	26
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	34	40	34	40	42
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	8.71	---	7.65	---	7.74
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	1.27	---	3.62	---	0.526
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	0.34	---	6.30	---	2.56
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	0.33	---	4.97	---	1.43
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.16	---	0.32	---	0.19
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	10.3	---	30.4	---	1.14
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	52.8	---	53.9	---	52.4
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	3.60	---	68.1	---	26.9
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	2.10	---	32.6	---	9.10
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	3.23	---	6.82	---	3.96
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	125	---	377	---	13.7
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	17.8	---	12.8	---	0.81

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LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	6.90	7.19	7.79
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	29	39	10	12	34
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	27	29	44	30	28
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	44	32	46	58	38
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.81	7.82	---	---	---
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.428	1.14	---	---	---
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	1.98	2.10	---	---	---
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	1.08	1.23	---	---	---
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.31	0.23	---	---	---
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	1.07	7.29	---	---	---
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	55.9	44.0	---	---	---
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	22.2	18.5	---	---	---
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	7.33	6.58	---	---	---
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	6.76	3.97	---	---	---
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	13.8	73.7	---	---	---
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.87	5.65	---	---	---

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MDL - Method Detection Limit

Report reviewed by:



Brenda Chomin, P.Chem
 Senior Environmental Chemist
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B-3P6

Date Received: 2006/05/24
Date Sampled: 2006/05/18
Report Date: 2009/02/11

Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6472 BR25-Ck	06-6473 BR26-Ck	06-6474 BR27-Cg	06-6475 BR28-Ck	06-6476 BR29-Ck
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	---	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	34	34	32	34	38
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	28	28	28	27	23
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	38	38	40	39	39
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.91	7.69	7.83	7.72	7.76
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	4.04	5.35	3.89	3.30	5.20
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	23.6	21.2	25.6	28.6	23.2
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	11.2	27.8	10.4	4.84	25.0
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	1.45	0.51	1.05	0.37	0.33
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	14.0	19.0	12.2	10.3	18.2
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	55.1	51.2	55.0	53.3	53.3
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	261	218	283	306	248
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	74.8	173	69.8	31.4	162
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	31.3	10.3	22.5	7.70	6.85
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	177	223	155	127	223
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	3.36	3.84	2.88	2.53	3.71

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6477 BR31-Ck	06-6478 BR33-Ah	06-6479 BR33-Ahe	06-6480 BR33-Bm	06-6481 BR33-C
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	6.55	7.97	7.37	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	34	42	54	26	34
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	27	37	25	31	27
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	39	21	21	43	39
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.83	---	---	---	7.93
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	3.82	---	---	---	0.291
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	19.7	---	---	---	1.43
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	8.68	---	---	---	0.66
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.32	---	---	---	0.06
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	16.8	---	---	---	0.51
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	54.0	---	---	---	41.5
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	214	---	---	---	11.9
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	57.0	---	---	---	3.31
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	6.76	---	---	---	1.05
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	208	---	---	---	4.90
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	4.45	---	---	---	0.50

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File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6482 BR34-Ckgj	06-6483 BR35-Cgk	06-6483-D BR35-Cgk Duplicate	06-6484 BR36-Ck	06-6485 BR37-Cskgj
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	---	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	36	32	32	30	2
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	29	30	30	32	60
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	35	38	38	38	38
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.51	8.29	7.93	7.62	7.88
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.370	6.44	5.91	3.40	4.21
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	1.65	21.3	19.3	24.8	24.9
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	1.00	8.05	7.37	14.6	11.0
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.06	0.31	0.22	0.65	0.72
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	0.88	51.0	46.2	5.81	16.1
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	46.1	77.0	76.4	53.1	70.3
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	15.3	328	295	264	350
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	5.61	75.4	68.4	93.9	94.3
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	1.06	9.20	6.67	13.4	19.7
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	9.34	902	813	70.8	260
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.77	13.3	12.7	1.31	3.79

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File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6486 BR38-Ah	06-6487 BR38-Bg	06-6488 BR38-BC	06-6489 BR38-Csk	06-6490 BR39-Cskj
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	6.69	6.73	---	---	---
LD	2006/06/12	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	23.2	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	21.4	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	3.81	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.38	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.22	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	20	38	38	32	34
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	48	30	30	34	28
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	32	32	32	34	38
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	7.75	7.80	7.54
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	---	0.816	0.806	4.01
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	---	4.12	3.77	25.6
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	---	2.36	2.28	18.9
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	---	0.07	0.13	1.05
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	---	2.37	2.34	9.02
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	---	51.4	57.1	54.9
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	---	42.4	43.2	281
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	14.7	15.9	126
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	---	1.50	2.80	22.5
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	---	27.9	30.7	114
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	1.31	1.34	1.91

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Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6491 BR40-Ap/Ah	06-6492 BR40-Bgj	06-6493 BR40-BCgj	06-6494 BR40-Cskg	06-6495 BR44-BCskg
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	8.00	8.21	---	---	---
LD	2006/06/12	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	32.5	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	57.7	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	9.23	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.21	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.56	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	18	30	34	29	< 1
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	48	32	28	45	61
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	34	38	38	26	42
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	7.55	7.66	7.39
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	---	2.94	3.41	2.48
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	---	24.2	27.7	21.1
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	---	13.2	16.0	7.71
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	---	0.20	0.25	0.33
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	---	3.48	4.59	3.39
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	---	52.7	44.3	75.3
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	---	255	246	318
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	84.5	85.9	70.6
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	---	4.10	4.37	9.82
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	---	42.2	46.8	58.7
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	0.81	0.98	0.89

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6496 BR45-Cgk	06-6497 BR48-BCg	06-6498 BR50-BCgj	06-6499 BR50-(II)BCgj	06-6500 BR51-Ah
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	---	---	6.65
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	20.3
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	18.2
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	3.32
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	0.14
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	0.11
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	< 1	17	15	3	15
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	57	49	53	43	61
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	42	34	32	54	24
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.04	7.36	6.90	7.71	---
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	2.90	2.99	0.308	0.216	---
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	27.7	29.2	1.07	0.72	---
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	7.45	8.87	0.65	0.37	---
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.43	0.14	0.09	0.06	---
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	3.88	3.70	0.51	0.46	---
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	73.5	54.8	49.6	54.4	---
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	408	320	10.6	7.84	---
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	66.6	59.0	3.89	2.43	---
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	12.5	3.00	1.71	1.30	---
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	65.5	46.5	5.81	5.72	---
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.93	0.85	0.55	0.62	---

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6501 BR51-Bt	06-6502 BR51-BC	06-6503 BR51-C	06-6504 BR53-C	06-6505 BR55-Bg
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	6.65	---	---	---	7.53
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	3	3	9	19	31
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	52	64	70	50	34
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	45	33	21	31	35
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	7.30	6.98	7.47	---
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	0.217	0.200	0.299	---
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	1.11	0.98	1.33	---
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	0.50	0.46	0.60	---
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	0.03	0.04	0.07	---
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	0.32	0.26	0.51	---
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	54.7	44.4	46.9	---
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	12.2	8.69	12.6	---
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	3.29	2.47	3.41	---
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	0.67	0.68	1.20	---
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	4.02	2.67	5.50	---
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.36	0.31	0.52	---

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Brenda Chomin, P.Chem
 Senior Environmental Chemist
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B-3P6

Date Received: 2006/05/24
Date Sampled: 2006/05/18
Report Date: 2009/02/11

Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6506 BR5-Cgk	06-6507 BR56-Cskgj	06-6508 BR57-Ah	06-6509 BR57-Bg	06-6510 BR57-Csk
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	6.50	8.02	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	9	43	35	43	47
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	14	26	42	28	28
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	77	31	23	29	25
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.43	7.84	---	---	7.97
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	1.43	0.850	---	---	0.666
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	6.92	3.67	---	---	1.54
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	2.54	1.73	---	---	1.02
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.17	0.07	---	---	0.04
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	4.91	2.97	---	---	3.70
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	83.7	46.3	---	---	43.1
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	116	34.1	---	---	13.3
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	25.8	9.76	---	---	5.36
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	5.65	1.19	---	---	0.67
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	94.5	31.6	---	---	36.7
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	2.26	1.81	---	---	3.27

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Date Received: 2006/05/24
Date Sampled: 2006/05/18
Report Date: 2009/02/11

Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6511 BR58-Ap	06-6512 BR58-Bmgj	06-6513 BR58-BCgj	06-6514 BR58-Cskgj	06-6515 BR59-Ck
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	6.60	8.35	---	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	39	44	38	38	26
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	40	34	30	28	46
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	21	22	32	34	28
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	8.08	7.71	7.63
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	---	0.428	0.610	1.48
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	---	1.01	1.40	4.47
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	---	0.58	0.70	1.93
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	---	0.04	0.05	0.11
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	---	2.48	3.53	7.65
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	---	43.7	46.9	48.4
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	---	8.86	13.2	43.4
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	3.11	3.98	11.4
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	---	0.62	0.91	2.11
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	---	25.0	38.1	85.1
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	2.78	3.45	4.28

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Report reviewed by:



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 Senior Environmental Chemist
 Laboratory Services

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Date Received: 2006/05/24
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Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6516 BR60-BC	06-6516-D BR60-BC Duplicate	06-6517 BR60-Csk	06-6518 BR63-Ckg	06-6519 BR64-(II)Ck
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	---	---	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	68	68	30	2	33
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	16	16	32	44	41
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	16	16	38	54	26
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.77	7.67	7.75	7.61	7.72
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.411	0.406	0.379	0.236	0.373
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	2.52	2.48	2.16	0.76	1.99
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	0.97	0.96	0.92	0.37	1.20
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.03	0.03	0.03	0.02	0.05
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	0.41	0.40	0.38	0.76	0.51
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	32.8	30.4	55.1	62.8	50.7
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	16.6	15.1	23.8	9.58	20.2
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	3.88	3.53	6.16	2.81	7.42
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	0.39	0.38	0.73	0.39	1.03
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	3.10	2.78	4.78	10.9	5.96
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.31	0.30	0.30	1.00	0.41

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Edmonton, AB T6B-3P6

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Report Date: 2009/02/11

Soil Analysis

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Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6520 BR66-BC	06-6521 BR66-Cskg	06-6522 BR67-Ap	06-6523 BR67-Bm	06-6524 BR67-BC
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	6.46	6.77	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	---	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	---	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	45	43	51	47	43
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	29	31	27	21	27
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	26	26	22	32	30
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.74	7.98	---	---	7.54
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.707	0.465	---	---	0.282
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	3.71	2.20	---	---	1.39
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	1.72	0.97	---	---	0.59
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.07	0.07	---	---	0.04
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	1.17	0.90	---	---	0.22
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	43.5	41.9	---	---	41.5
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	32.4	18.4	---	---	11.5
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	9.07	4.94	---	---	2.99
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	1.19	1.18	---	---	0.64
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	11.6	8.67	---	---	2.12
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.71	0.72	---	---	0.22

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Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6525 BR67-Csk	06-6525-D BR67-Csk Duplicate	06-6526 BR68-Ah	06-6527 BR68-Ahe	06-6527-D BR68-Ahe Duplicate
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---	4.78	5.79	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---	6.5	4.5	4.2
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	2.90	2.70	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	0.42	0.40	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	0.17	0.06	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---	< 0.01	< 0.01	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	49	49	83	83	---
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	25	25	9	11	---
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	26	26	8	6	---
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	8.05	8.03	---	---	---
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	0.233	0.241	---	---	---
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	1.35	1.40	---	---	---
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	0.54	0.56	---	---	---
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.05	0.04	---	---	---
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	0.24	0.25	---	---	---
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	36.5	35.2	---	---	---
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	9.86	9.85	---	---	---
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	2.41	2.39	---	---	---
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	0.69	0.61	---	---	---
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	1.97	2.01	---	---	---
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.24	0.25	---	---	---

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Report reviewed by:



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ANALYTICAL REPORT

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Date Received: 2006/05/24
Date Sampled: 2006/05/18
Report Date: 2009/02/11

Soil Analysis

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	06-6528 BR68-Bm	06-6529 BR68-C
LD	2006/06/14	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	6.21	---
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	---	---
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	---	---
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	87	89
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	3	3
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	10	8
LD	2006/06/14	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	7.23
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	---	0.495
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	---	2.63
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	---	0.82
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	---	0.07
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	---	0.29
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	---	27.5
LD	2006/06/14	Calcium	µg/g (ppm)	Calculation	0.10	---	14.5
LD	2006/06/14	Magnesium	µg/g (ppm)	Calculation	0.10	---	2.73
LD	2006/06/14	Potassium	µg/g (ppm)	Calculation	0.10	---	0.71
LD	2006/06/14	Sodium	µg/g (ppm)	Calculation	0.10	---	1.81
LD	2006/06/14	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.22

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MDL - Method Detection Limit

Report reviewed by:



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 Senior Environmental Chemist
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
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Edmonton, AB T6B-3P6

Report Date: 2009/02/11

Quality Control Standard

Attention: Turchenek, Larry

Project No. CE03210 Phase 005 Ta

File No.: EC-50505

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	13.3	12.88-14.91	13.90	SS#12
LD	2006/06/12	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	32.2	31.02-39.15	35.09	SS#12
LD	2006/06/12	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	4.21	4.08-4.79	4.44	SS#12
LD	2006/06/12	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	3.35	3.33-3.97	3.65	SS#12
LD	2006/06/12	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.54	0.48-0.55	0.51	SS#12
LD	2006/06/14	Texture - Sand	%	McKeague 2.12	1	46	44-49	46.00	SS#11
LD	2006/06/14	Texture - Silt	%	McKeague 2.12	1	28	22-33	27.00	SS#11
LD	2006/06/14	Texture - Clay	%	McKeague 2.12	1	26	23-28	25.00	SS#11
LD	2006/06/14	pH (Sat. Paste)	---	McKeague 4.13	0.01	7.29	6.78-8.10	7.44	SS#11
LD	2006/06/14	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	2.90	2.26-3.16	2.71	SS#11
AD	2006/06/11	Calcium	meq/L	McKeague 3.21	0.01	18.2	13.45-23.07	18.30	SS#11
AD	2006/06/11	Magnesium	meq/L	McKeague 3.21	0.01	7.59	5.59-9.68	7.63	SS#11
AD	2006/06/11	Potassium	meq/L	McKeague 3.21	0.01	0.71	0.40-0.92	0.66	SS#11
AD	2006/06/11	Sodium	meq/L	McKeague 3.21	0.01	8.64	7.68-10.70	9.19	SS#11
LD	2006/06/14	Saturation	%	McKeague 3.21	0.1	44.3	41.74-46.13	43.94	SS#11

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:

Brenda Chomin, P.Chem
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 Laboratory Services

** All samples will be disposed of after 30 days following analysis. Please contact the lab if you require additional sample storage time. (Samples deemed hazardous will be returned to the client at their own expense or disposal will be arranged.) **