



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-001
 Client Sample ID: T2/YBA-1-(0-15)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.7	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	0.83	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	57.0	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	3.2	meq/l		0.1		SW6010B	11/17/03 11:38 / jdh
Mg-SatPst	1.4	meq/l		0.1		SW6010B	11/17/03 11:38 / jdh
Na-SatPst	2.5	meq/l		0.1		SW6010B	11/17/03 11:38 / jdh
SAR	1.6	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	5.2	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	3.0	mg/L		0.1		ASA10-3	12/08/03 16:04 / cwh
SO4-SatPst	2.5	meq/L		0.2		ASA10-3	11/18/03 12:58 / jdh
PHYSICAL CHARACTERISTICS							
Sand	16	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	60	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	24	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
K-EXT	170	mg/kg		1		AAA13-3	01/15/04 00:00 / jdh
OM-WB	2.00	wt%		0.02		ASA29-3	12/09/03 08:48 / jdh
CEC	33.3	meq/100g		0.1		SW6010B	11/17/03 01:20 / jdh
ESP	2.2	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	7.0	wt%		0.1		USDA23c	11/13/03 00:00 / nh
P-Olsen	76	mg/kg		0.1		ASA24-5	11/18/03 09:07 / jdh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	0.9	meq/100g		0.1		SW6010B	11/24/03 03:45 / jdh
METALS, DTPA EXTRACTABLE							
Zn-DTPA	0.57	mg/kg		0.02		SW6010B	11/25/03 12:34 / jdh
CLAY MINEROLOGY							
Smectite	54	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Illite	22	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Kaolinite	23	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Chlorite	2	%		1		XrayDiffraction	11/07/03 00:00 / wjj

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-002
 Client Sample ID: T2/YBA-1-(15-22)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.9	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.28	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	56.4	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	3.4	meq/l		0.1		SW6010B	11/17/03 11:40 / jdh
Mg-SatPst	3.4	meq/l		0.1		SW6010B	11/17/03 11:40 / jdh
Na-SatPst	4.7	meq/l		0.1		SW6010B	11/17/03 11:40 / jdh
SAR	2.6	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	3.6	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	5.0	mg/L		0.2		ASA10-3	12/08/03 16:06 / cwh
SO4-SatPst	7.0	meq/L		0.2		ASA10-3	11/18/03 01:07 / jdh
PHYSICAL CHARACTERISTICS							
Sand	4.0	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	72	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	24	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	30.8	meq/100g		0.1		SW6010B	11/17/03 01:22 / jdh
ESP	3.3	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	9.8	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	1.3	meq/100g		0.1		SW6010B	11/24/03 03:48 / jdh
CLAY MINEROLOGY							
Smectite	54	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Illite	22	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Kaolinite	19	%		1		XrayDiffraction	11/07/03 00:00 / wjj
Chlorite	4	%		1		XrayDiffraction	11/07/03 00:00 / wjj

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: AMPP
Project: Tongue River Monitoring
Lab ID: H03100135-003
Client Sample ID: T2/YBA-1-(22-41)

Report Date: 01/20/04
Collection Date: 10/20/03 17:00
Date Received: 10/27/03
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	8.0	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.59	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	51.2	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	3.2	meq/l		0.1		SW6010B	11/17/03 11:43 / jdh
Mg-SatPst	4.0	meq/l		0.1		SW6010B	11/17/03 11:43 / jdh
Na-SatPst	7.6	meq/l		0.1		SW6010B	11/17/03 11:43 / jdh
SAR	4.0	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	3.3	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	5.1	mg/L		0.1		ASA10-3	12/08/03 16:08 / cwh
SO4-SatPst	11.4	meq/L		0.2		ASA10-3	11/18/03 01:10 / jdh
PHYSICAL CHARACTERISTICS							
Sand	16	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	66	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	18	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	24.6	meq/100g		0.1		SW6010B	11/17/03 01:25 / jdh
ESP	5.0	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	7.5	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	1.6	meq/100g		0.1		SW6010B	11/24/03 03:50 / jdh

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-004
 Client Sample ID: T2/YBA-1-(41-60)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	8.0	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	3.16	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	62.0	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	5.5	meq/l		0.1		SW6010B	11/17/03 11:45 / jdh
Mg-SatPst	9.1	meq/l		0.1		SW6010B	11/17/03 11:45 / jdh
Na-SatPst	14.0	meq/l		0.1		SW6010B	11/17/03 11:45 / jdh
SAR	5.2	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	2.8	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
PHYSICAL CHARACTERISTICS							
Sand	14	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	57	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	29	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiCL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	33.6	meq/100g		0.1		SW6010B	11/17/03 01:28 / jdh
ESP	6.2	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.1	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	2.9	meq/100g		0.1		SW6010B	11/24/03 03:53 / jdh

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: AMPP
Project: Tongue River Monitoring
Lab ID: H03100135-009
Client Sample ID: T2/YBA-10-(0-2)

Report Date: 01/20/04
Collection Date: 10/20/03 17:00
Date Received: 10/27/03
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.4	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.71	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	58.1	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	9.6	meq/l		0.1		SW6010B	11/17/03 11:48 / jdh
Mg-SatPst	3.3	meq/l		0.1		SW6010B	11/17/03 11:48 / jdh
Na-SatPst	3.7	meq/l		0.1		SW6010B	11/17/03 11:48 / jdh
SAR	1.5	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	9.6	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
PHYSICAL CHARACTERISTICS							
Sand	13	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	64	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	23	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	30.7	meq/100g		0.1		SW6010B	11/17/03 01:30 / jdh
ESP	2.3	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.9	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	0.9	meq/100g		0.1		SW6010B	11/24/03 03:55 / jdh

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-010
 Client Sample ID: T2/YBA-10-(0-6)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.6	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.19	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	58.4	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	4.8	meq/l		0.1		SW6010B	11/17/03 11:51 / jdh
Mg-SatPst	2.1	meq/l		0.1		SW6010B	11/17/03 11:51 / jdh
Na-SatPst	3.0	meq/l		0.1		SW6010B	11/17/03 11:51 / jdh
SAR	1.6	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	5.2	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	14.8	mg/L		0.2		ASA10-3	12/08/03 16:10 / cwh
SO4-SatPst	3.2	meq/L		0.2		ASA10-3	11/18/03 01:13 / jdh
PHYSICAL CHARACTERISTICS							
Sand	16	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	59	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	25	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
F	< 1.0	mg/kg		1.0		A4500-F C	11/19/03 14:45 / ddb
K-EXT	211	mg/kg		1		AAA13-3	01/15/04 00:00 / jdh
OM-WB	2.20	wt%		0.02		ASA29-3	12/09/03 08:48 / jdh
CEC	32.9	meq/100g		0.1		SW6010B	11/17/03 01:33 / jdh
ESP	2.3	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.7	wt%		0.1		USDA23c	11/13/03 00:00 / nh
P-Olsen	74	mg/kg		0.1		ASA24-5	11/18/03 09:16 / jdh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	0.9	meq/100g		0.1		SW6010B	11/24/03 04:03 / jdh
METALS, HOT WATER EXTRACTABLE							
Ba-H2O	< 5	mg/kg		5		SW6010B	11/24/03 15:55 / rih
B-H2O	< 1	mg/kg		1		SW6010B	11/24/03 15:55 / rih
Se-H2O	< 0.05	mg/kg		0.05		SW6020	11/20/03 10:19 / car
METALS, DTPA EXTRACTABLE							
Zn-DTPA	0.58	mg/kg		0.02		SW6010B	11/25/03 12:37 / jdh

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: AMPP
Project: Tongue River Monitoring
Lab ID: H03100135-011
Client Sample ID: T2/YBA-10-(6-12)

Report Date: 01/20/04
Collection Date: 10/20/03 17:00
Date Received: 10/27/03
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.7	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.30	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	58.4	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	5.4	meq/l		0.1		SW6010B	11/17/03 11:56 / jdh
Mg-SatPst	2.9	meq/l		0.1		SW6010B	11/17/03 11:56 / jdh
Na-SatPst	3.4	meq/l		0.1		SW6010B	11/17/03 11:56 / jdh
SAR	1.7	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	4.4	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	19.8	mg/L		0.6		ASA10-3	12/08/03 16:14 / cwh
SO4-SatPst	6.9	meq/L		0.2		ASA10-3	11/18/03 01:19 / jdh
PHYSICAL CHARACTERISTICS							
Sand	16	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	60	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	24	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	30.6	meq/100g		0.1		SW6010B	11/17/03 01:38 / jdh
ESP	2.3	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	7.0	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	0.9	meq/100g		0.1		SW6010B	11/24/03 04:09 / jdh

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-012
 Client Sample ID: T2/YBA-10-(12-24)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.8	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.83	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	55.5	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	5.9	meq/l		0.1		SW6010B	11/17/03 11:58 / jdh
Mg-SatPst	3.5	meq/l		0.1		SW6010B	11/17/03 11:58 / jdh
Na-SatPst	8.0	meq/l		0.1		SW6010B	11/17/03 11:58 / jdh
SAR	3.7	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	4.4	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
Nitrate as N, Saturated Paste	10.8	mg/L		0.6		ASA10-3	12/08/03 16:16 / cwh
SO4-SatPst	12.0	meq/L		0.2		ASA10-3	11/18/03 01:21 / jdh
PHYSICAL CHARACTERISTICS							
Sand	10	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	56	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	34	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiCL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	35.0	meq/100g		0.1		SW6010B	11/17/03 01:41 / jdh
ESP	7.3	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.7	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	3.0	meq/100g		0.1		SW6010B	11/24/03 04:11 / jdh

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-013
 Client Sample ID: T2/YBA-10-(24-36)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.8	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	1.78	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	65.5	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	4.7	meq/l		0.1		SW6010B	11/17/03 12:01 / jdh
Mg-SatPst	3.1	meq/l		0.1		SW6010B	11/17/03 12:01 / jdh
Na-SatPst	9.0	meq/l		0.1		SW6010B	11/17/03 12:01 / jdh
SAR	4.5	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	4.0	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
PHYSICAL CHARACTERISTICS							
Sand	23	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	55	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	22	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	28.5	meq/100g		0.1		SW6010B	11/17/03 01:43 / jdh
ESP	3.9	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	7.3	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	1.7	meq/100g		0.1		SW6010B	11/24/03 04:14 / jdh

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: AMPP
 Project: Tongue River Monitoring
 Lab ID: H03100135-014
 Client Sample ID: T2/YBA-10-(36-60)

Report Date: 01/20/04
 Collection Date: 10/20/03 17:00
 Date Received: 10/27/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	7.9	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	2.42	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	54.5	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	5.2	meq/l		0.1		SW6010B	11/17/03 12:09 / jdh
Mg-SatPst	3.5	meq/l		0.1		SW6010B	11/17/03 12:09 / jdh
Na-SatPst	15.5	meq/l		0.1		SW6010B	11/17/03 12:09 / jdh
SAR	7.4	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	4.0	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
PHYSICAL CHARACTERISTICS							
Sand	18	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	56	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	26	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
F	< 1.0	mg/kg		1.0		A4500-F C	11/19/03 14:45 / ddb
CEC	30.7	meq/100g		0.1		SW6010B	11/17/03 01:46 / jdh
ESP	5.9	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.7	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	2.7	meq/100g		0.1		SW6010B	11/24/03 04:17 / jdh
METALS, HOT WATER EXTRACTABLE							
Ba-H2O	< 5	mg/kg		5		SW6010B	11/24/03 16:03 / rih
B-H2O	< 1	mg/kg		1		SW6010B	11/24/03 16:03 / rih
Se-H2O	< 0.05	mg/kg		0.05		SW6020	11/20/03 10:29 / car

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: AMPP
Project: Tongue River Monitoring
Lab ID: H03100135-015
Client Sample ID: T2/YBA-10-(60-96)

Report Date: 01/20/04
Collection Date: 10/20/03 17:00
Date Received: 10/27/03
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SATURATED PASTE							
pH-SatPst	8.2	s.u.		0.1		ASAM10-3.2	12/09/03 08:48 / jdh
COND	2.00	mmhos/cm		0.01		ASAM10-3	12/09/03 08:48 / jdh
Percent Sat	69.2	wt%		0.1		USDA27a	12/09/03 08:48 / jdh
Ca-SatPst	1.7	meq/l		0.1		SW6010B	11/17/03 12:12 / jdh
Mg-SatPst	1.2	meq/l		0.1		SW6010B	11/17/03 12:12 / jdh
Na-SatPst	15.2	meq/l		0.1		SW6010B	11/17/03 12:12 / jdh
SAR	13	unitless		0.1		Calculation	12/09/03 08:48 / jdh
Alk-SatPst	4.4	meq/L		1.0		ASA10-3	11/25/03 00:00 / jdh
PHYSICAL CHARACTERISTICS							
Sand	14	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Silt	58	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Clay	28	wt%		1.0		ASA15-5	12/09/03 08:48 / jdh
Texture	SiCL	unitless				ASA15-5	12/09/03 08:48 / jdh
CHEMICAL CHARACTERISTICS							
CEC	32.4	meq/100g		0.1		SW6010B	11/17/03 01:48 / jdh
ESP	8.6	%		0.1		USDA20b	12/09/03 08:48 / jdh
Lime as CaCO3	6.6	wt%		0.1		USDA23c	11/13/03 00:00 / nh
METALS, AMMONIUM ACETATE EXTRACTABLE							
Na-Av	3.8	meq/100g		0.1		SW6010B	11/24/03 04:19 / jdh

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

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