



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-001
 Client Sample ID: T1DB:S20, 0-6 in

Report Date: 11/07/03
 Collection Date: 10/21/03 13:00
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	SiC					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.01	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	87.9	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	2.36	meq/l		0.01		SW6010B	10/30/03 14:59 / rlh
Magnesium, sat. paste	1.69	meq/l		0.01		SW6010B	10/30/03 14:59 / rlh
Sodium, sat. paste	5.70	meq/l		0.01		SW6010B	10/30/03 14:59 / rlh
Sodium Adsorption Ratio (SAR)	4.00	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Lime as CaCO ₃ , %	2.8	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	40	mg/kg		1		ASA10-3	10/29/03 17:19 / jb
Phosphorus, Olsen	3	mg/kg		1		ASA24-5	10/29/03 10:21 / srm
Nitrate as N, KCL Extract	7	mg/kg		1		ASA38-3	10/29/03 12:52 / srm
Nitrate as N, KCL Extract	15	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	2.45	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Potassium	360	mg/kg	B	10		SW6010B	10/28/03 17:44 / rlh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-002
 Client Sample ID: T1DB:S20, 6-24 in

Report Date: 11/07/03
 Collection Date: 10/21/03 13:00
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	SiC					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.46	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	75.2	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	2.80	meq/l		0.01		SW6010B	10/30/03 15:03 / rh
Magnesium, sat. paste	1.84	meq/l		0.01		SW6010B	10/30/03 15:03 / rh
Sodium, sat. paste	10.4	meq/l		0.01		SW6010B	10/30/03 15:03 / rh
Sodium Adsorption Ratio (SAR)	6.83	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Sulfate as S	89	mg/kg		1		ASA10-3	10/29/03 17:30 / jb
Nitrate as N, KCL Extract	3	mg/kg		1		ASA38-3	10/29/03 12:53 / srm
Nitrate as N, KCL Extract	18	lbs/acre		1		Calculation	10/30/03 14:09 / srm

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:
 Lab ID: B03101155-003
 Client Sample ID: T1DB:Fld Alf, 0-6 in

Report Date: 11/07/03
 Collection Date: 10/21/03 13:30
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	CL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.82	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	64.7	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	5.54	meq/l		0.01		SW6010B	10/30/03 15:06 / r/h
Magnesium, sat. paste	3.46	meq/l		0.01		SW6010B	10/30/03 15:06 / r/h
Sodium, sat. paste	2.47	meq/l		0.01		SW6010B	10/30/03 15:06 / r/h
Sodium Adsorption Ratio (SAR)	1.16	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Lime as CaCO ₃ , %	6.3	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	15	mg/kg		1		ASA10-3	10/29/03 17:41 / j/b
Phosphorus, Olsen	6	mg/kg		1		ASA24-5	10/29/03 10:23 / srm
Nitrate as N, KCL Extract	10	mg/kg		1		ASA38-3	10/29/03 12:54 / srm
Nitrate as N, KCL Extract	20	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	3.10	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Potassium	310	mg/kg	B	10		SW6010B	10/29/03 14:55 / r/h

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-004
 Client Sample ID: T1DB:Fld Alf, 6-24

Report Date: 11/07/03
 Collection Date: 10/21/03 13:30
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	L					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.76	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	48.1	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	4.57	meq/l		0.01		SW6010B	10/30/03 15:09 / rh
Magnesium, sat. paste	2.79	meq/l		0.01		SW6010B	10/30/03 15:09 / rh
Sodium, sat. paste	2.82	meq/l		0.01		SW6010B	10/30/03 15:09 / rh
Sodium Adsorption Ratio (SAR)	1.47	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Sulfate as S	16	mg/kg		1		ASA10-3	10/29/03 18:14 / jb
Nitrate as N, KCL Extract	5	mg/kg		1		ASA38-3	10/29/03 12:55 / srm
Nitrate as N, KCL Extract	28	lbs/acre		1		Calculation	10/30/03 14:09 / srm

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:
 Lab ID: B03101155-005
 Client Sample ID: T1DB:P40, 0-6 in

Report Date: 11/07/03
 Collection Date: 10/21/03 14:00
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	CL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.29	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	52.1	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	7.25	meq/l		0.01		SW6010B	10/30/03 15:12 / r/h
Magnesium, sat. paste	3.49	meq/l		0.01		SW6010B	10/30/03 15:12 / r/h
Sodium, sat. paste	2.41	meq/l		0.01		SW6010B	10/30/03 15:12 / r/h
Sodium Adsorption Ratio (SAR)	1.04	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Lime as CaCO ₃ , %	2.8	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	24	mg/kg		1		ASA10-3	10/29/03 18:24 / j/b
Phosphorus, Olsen	20	mg/kg		1		ASA24-5	10/29/03 10:24 / srm
Nitrate as N, KCL Extract	33	mg/kg		1		ASA38-3	10/29/03 12:58 / srm
Nitrate as N, KCL Extract	66	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	3.10	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Potassium	450	mg/kg	B	10		SW6010B	10/29/03 15:05 / r/h

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-006
 Client Sample ID: T1DB:P40, 6-24 in

Report Date: 11/07/03
 Collection Date: 10/21/03 14:00
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	CL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.12	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	46.3	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	5.59	meq/l		0.01		SW6010B	10/30/03 15:22 / rh
Magnesium, sat. paste	3.35	meq/l		0.01		SW6010B	10/30/03 15:22 / rh
Sodium, sat. paste	2.91	meq/l		0.01		SW6010B	10/30/03 15:22 / rh
Sodium Adsorption Ratio (SAR)	1.38	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Sulfate as S	26	mg/kg		1		ASA10-3	10/29/03 18:57 / jb
Nitrate as N, KCL Extract	12	mg/kg		1		ASA38-3	10/29/03 13:00 / srm
Nitrate as N, KCL Extract	74	lbs/acre		1		Calculation	10/30/03 14:09 / srm

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:
 Lab ID: B03101155-007
 Client Sample ID: T1DB:P90, 0-6 in

Report Date: 11/07/03
 Collection Date: 10/21/03 14:30
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	CL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.45	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	50.5	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	4.14	meq/l		0.01		SW6010B	10/30/03 15:25 / rlh
Magnesium, sat. paste	2.82	meq/l		0.01		SW6010B	10/30/03 15:25 / rlh
Sodium, sat. paste	8.53	meq/l		0.01		SW6010B	10/30/03 15:25 / rlh
Sodium Adsorption Ratio (SAR)	4.57	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Lime as CaCO3, %	3.0	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	33	mg/kg		1		ASA10-3	10/29/03 19:08 / jb
Phosphorus, Olsen	12	mg/kg		1		ASA24-5	10/29/03 10:26 / srm
Nitrate as N, KCL Extract	22	mg/kg		1		ASA38-3	10/29/03 13:01 / srm
Nitrate as N, KCL Extract	45	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	2.97	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Potassium	500	mg/kg	B	10		SW6010B	10/29/03 15:08 / rlh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-008
 Client Sample ID: T1DB:P90, 6-24 in

Report Date: 11/07/03
 Collection Date: 10/21/03 14:30
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	CL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.2	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	2.52	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	54.6	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	3.48	meq/l	D	0.02		SW6010B	10/30/03 15:29 / rh
Magnesium, sat. paste	3.23	meq/l	D	0.02		SW6010B	10/30/03 15:29 / rh
Sodium, sat. paste	19.1	meq/l	D	0.02		SW6010B	10/30/03 15:29 / rh
Sodium Adsorption Ratio (SAR)	10.4	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Sulfate as S	102	mg/kg		1		ASA10-3	10/29/03 19:19 / jb
Nitrate as N, KCL Extract	9	mg/kg		1		ASA38-3	10/29/03 13:02 / srm
Nitrate as N, KCL Extract	52	lbs/acre		1		Calculation	10/30/03 14:09 / srm

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: AMPP
 Project:
 Lab ID: B03101155-009
 Client Sample ID: T1DB:SR, 0-6 in

Report Date: 11/07/03
 Collection Date: 10/21/03 15:00
 Date Received: 10/22/03
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	L					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.51	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	47.4	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	3.96	meq/l		0.01		SW6010B	10/30/03 15:35 / rlh
Magnesium, sat. paste	3.52	meq/l		0.01		SW6010B	10/30/03 15:35 / rlh
Sodium, sat. paste	9.85	meq/l		0.01		SW6010B	10/30/03 15:35 / rlh
Sodium Adsorption Ratio (SAR)	5.09	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Lime as CaCO ₃ , %	3.2	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	39	mg/kg		1		ASA10-3	10/29/03 19:30 / jb
Phosphorus, Olsen	8	mg/kg		1		ASA24-5	10/29/03 10:27 / srm
Nitrate as N, KCL Extract	9	mg/kg		1		ASA38-3	10/29/03 13:03 / srm
Nitrate as N, KCL Extract	18	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	3.33	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Potassium	290	mg/kg	B	10		SW6010B	10/29/03 15:11 / rlh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: AMPP
Project:
Lab ID: B03101155-010
Client Sample ID: T1DB:SR, 6-24 in

Report Date: 11/07/03
Collection Date: 10/21/03 15:00
Date Received: 10/22/03
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Texture	L					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.66	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	52.9	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	3.87	meq/l		0.01		SW6010B	10/30/03 15:38 / rh
Magnesium, sat. paste	3.41	meq/l		0.01		SW6010B	10/30/03 15:38 / rh
Sodium, sat. paste	11.0	meq/l		0.01		SW6010B	10/30/03 15:38 / rh
Sodium Adsorption Ratio (SAR)	5.78	unitless		0.01		Calculation	10/31/03 16:07 / srm
CHEMICAL CHARACTERISTICS							
Sulfate as S	62	mg/kg		1		ASA10-3	10/29/03 19:52 / jb
Nitrate as N, KCL Extract	2	mg/kg		1		ASA38-3	10/29/03 13:04 / srm
Nitrate as N, KCL Extract	14	lbs/acre		1		Calculation	10/30/03 14:09 / srm

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

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