



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project:  
 Lab ID: B03101155-011  
 Client Sample ID: T1DA:P2, 0-6 in

Report Date: 11/07/03  
 Collection Date: 10/21/03 15:30  
 Date Received: 10/22/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	SiL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.98	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	53.7	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	7.66	meq/l		0.01		SW6010B	10/30/03 15:45 / r/h
Magnesium, sat. paste	3.86	meq/l		0.01		SW6010B	10/30/03 15:45 / r/h
Sodium, sat. paste	1.61	meq/l		0.01		SW6010B	10/30/03 15:45 / r/h
Sodium Adsorption Ratio (SAR)	0.67	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	8.7	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	15	mg/kg		1		ASA10-3	10/29/03 20:03 / j/b
Phosphorus, Olsen	3	mg/kg		1		ASA24-5	10/29/03 10:29 / srm
Nitrate as N, KCL Extract	14	mg/kg		1		ASA38-3	10/29/03 13:05 / srm
Nitrate as N, KCL Extract	27	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	3.07	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	390	mg/kg	B	10		SW6010B	10/29/03 15:14 / 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: B03101155-012  
 Client Sample ID: T1DA:P2, 6-24 in

Report Date: 11/07/03  
 Collection Date: 10/21/03 15:30  
 Date Received: 10/22/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	SiL					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.84	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	46.7	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	5.19	meq/l		0.01		SW6010B	10/30/03 15:48 / rlh
Magnesium, sat. paste	3.16	meq/l		0.01		SW6010B	10/30/03 15:48 / rlh
Sodium, sat. paste	2.56	meq/l		0.01		SW6010B	10/30/03 15:48 / rlh
Sodium Adsorption Ratio (SAR)	1.25	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	18	mg/kg		1		ASA10-3	10/29/03 20:14 / jb
Nitrate as N, KCL Extract	6	mg/kg		1		ASA38-3	10/29/03 13:06 / srm
Nitrate as N, KCL Extract	38	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: B03101155-013  
 Client Sample ID: T1DA:P3 West, 0-6 in

Report Date: 11/07/03  
 Collection Date: 10/21/03 16:00  
 Date Received: 10/22/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	C					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.2	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.79	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	82.9	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	3.43	meq/l		0.01		SW6010B	10/30/03 15:51 / rh
Magnesium, sat. paste	1.56	meq/l		0.01		SW6010B	10/30/03 15:51 / rh
Sodium, sat. paste	3.97	meq/l		0.01		SW6010B	10/30/03 15:51 / rh
Sodium Adsorption Ratio (SAR)	2.51	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	4.5	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	14	mg/kg		1		ASA10-3	10/29/03 20:24 / jb
Phosphorus, Olsen	4	mg/kg		1		ASA24-5	10/29/03 10:30 / srm
Nitrate as N, KCL Extract	4	mg/kg		1		ASA38-3	10/29/03 13:07 / srm
Nitrate as N, KCL Extract	8	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	3.88	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	530	mg/kg	B	10		SW6010B	10/29/03 15:21 / rh

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:** B03101155-014  
**Client Sample ID:** T1DA:P3 West, 6-24 in

**Report Date:** 11/07/03  
**Collection Date:** 10/21/03 16:00  
**Date Received:** 10/22/03  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	L					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	2.60	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	50.0	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	9.48	meq/l	D	0.02		SW6010B	10/30/03 16:17 / rh
Magnesium, sat. paste	4.96	meq/l	D	0.02		SW6010B	10/30/03 16:17 / rh
Sodium, sat. paste	15.7	meq/l	D	0.02		SW6010B	10/30/03 16:17 / rh
Sodium Adsorption Ratio (SAR)	5.83	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	272	mg/kg		1		ASA10-3	10/29/03 20:57 / jb
Sulfate as S	141	mg/kg		1		ASA10-3	10/30/03 10:57 / jb
Nitrate as N, KCL Extract	1	mg/kg		1		ASA38-3	10/29/03 13:10 / srm
Nitrate as N, KCL Extract	8	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: B03101155-015  
 Client Sample ID: T1DA:P3 East, 0-6 in

Report Date: 11/07/03  
 Collection Date: 10/21/03 16:30  
 Date Received: 10/22/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	SiC					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	0.88	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	62.5	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	2.70	meq/l		0.01		SW6010B	10/30/03 16:20 / rlh
Magnesium, sat. paste	1.47	meq/l		0.01		SW6010B	10/30/03 16:20 / rlh
Sodium, sat. paste	5.87	meq/l		0.01		SW6010B	10/30/03 16:20 / rlh
Sodium Adsorption Ratio (SAR)	4.07	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO3, %	1.9	wt%		0.1		USDA23c	10/31/03 16:07 / srm
Sulfate as S	18	mg/kg		1		ASA10-3	10/29/03 21:08 / jb
Phosphorus, Olsen	3	mg/kg		1		ASA24-5	10/29/03 10:34 / srm
Nitrate as N, KCL Extract	5	mg/kg		1		ASA38-3	10/29/03 13:11 / srm
Nitrate as N, KCL Extract	9	lbs/acre		1		Calculation	10/30/03 14:09 / srm
Organic Matter	2.79	wt%		0.02		ASA29-3	10/28/03 13:20 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	530	mg/kg	B	10		SW6010B	10/29/03 15:27 / 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: B03101155-016  
 Client Sample ID: T1DA:P3 East, 6-24 in

Report Date: 11/07/03  
 Collection Date: 10/21/03 16:30  
 Date Received: 10/22/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	L					ASA15-5	10/31/03 16:07 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	10/30/03 14:25 / srm
Conductivity, Saturated Paste	1.07	mmhos/cm		0.01		ASA10-3	10/30/03 14:25 / srm
Saturation	41.4	wt%		0.1		USDA27a	10/30/03 14:25 / srm
Calcium, sat. paste	2.01	meq/l		0.01		SW6010B	10/30/03 16:24 / rh
Magnesium, sat. paste	1.38	meq/l		0.01		SW6010B	10/30/03 16:24 / rh
Sodium, sat. paste	8.06	meq/l		0.01		SW6010B	10/30/03 16:24 / rh
Sodium Adsorption Ratio (SAR)	6.19	unitless		0.01		Calculation	10/31/03 16:07 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	17	mg/kg		1		ASA10-3	10/29/03 21:41 / jb
Nitrate as N, KCL Extract	3	mg/kg		1		ASA38-3	10/29/03 13:14 / srm
Nitrate as N, KCL Extract	20	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.