



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-001  
 Client Sample ID: T1/LA:SR Spots, 0-6 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 12:30  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	SL					ASA15-5	10/24/03 13:11 / 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	10/22/03 13:40 / srm
Conductivity, Saturated Paste	3.37	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	42.9	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	30.3	meq/l	D	0.02		SW6010B	10/23/03 15:14 / rth
Magnesium, sat. paste	14.2	meq/l	D	0.02		SW6010B	10/23/03 15:14 / rth
Sodium, sat. paste	4.33	meq/l	D	0.02		SW6010B	10/23/03 15:14 / rth
Sodium Adsorption Ratio (SAR)	0.92	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	5.8	wt%		0.1		USDA23c	10/24/03 13:11 / srm
Sulfate as S	218	mg/kg		1		ASA10-3	10/21/03 21:56 / jb
Phosphorus, Olsen	12	mg/kg		1		ASA24-5	10/17/03 09:24 / srm
Nitrate as N, KCL Extract	80	mg/kg		1		ASA38-3	10/17/03 12:32 / srm
Nitrate as N, KCL Extract	161	lbs/acre		1		Calculation	10/17/03 13:21 / srm
Organic Matter	4.69	wt%		0.02		ASA29-3	10/22/03 13:40 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	200	mg/kg	B	10		SW6010B	10/21/03 02:14 / rth

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-002  
 Client Sample ID: T1/LA:SR Spots, 6-24 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 12:30  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	SL					ASA15-5	10/24/03 13:11 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.3	s.u.		0.1		ASAM10-3.2	10/22/03 13:40 / srm
Conductivity, Saturated Paste	4.05	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	32.2	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	35.2	meq/l	D	0.02		SW6010B	10/23/03 15:17 / rth
Magnesium, sat. paste	16.6	meq/l	D	0.02		SW6010B	10/23/03 15:17 / rth
Sodium, sat. paste	3.79	meq/l	D	0.02		SW6010B	10/23/03 15:17 / rth
Sodium Adsorption Ratio (SAR)	0.74	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	959	mg/kg		1		ASA10-3	10/21/03 22:07 / jb
Nitrate as N, KCL Extract	89	mg/kg		1		ASA38-3	10/17/03 12:33 / srm
Nitrate as N, KCL Extract	534	lbs/acre		1		Calculation	10/17/03 13:21 / srm

Report Definitions: RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-003  
 Client Sample ID: T1/LA:Flood Alf, 0-6 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 13:30  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 13:11 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	10/22/03 13:40 / srm
Conductivity, Saturated Paste	1.23	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	52.2	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	5.88	meq/l		0.01		SW6010B	10/23/03 15:21 / rth
Magnesium, sat. paste	4.27	meq/l		0.01		SW6010B	10/23/03 15:21 / rth
Sodium, sat. paste	4.38	meq/l		0.01		SW6010B	10/23/03 15:21 / rth
Sodium Adsorption Ratio (SAR)	1.94	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	5.4	wt%		0.1		USDA23c	10/24/03 13:11 / srm
Sulfate as S	26	mg/kg		1		ASA10-3	10/21/03 22:39 / jb
Phosphorus, Olsen	25	mg/kg		1		ASA24-5	10/17/03 09:26 / srm
Nitrate as N, KCL Extract	47	mg/kg		1		ASA38-3	10/17/03 12:33 / srm
Nitrate as N, KCL Extract	95	lbs/acre		1		Calculation	10/17/03 13:21 / srm
Organic Matter	2.09	wt%		0.02		ASA29-3	10/22/03 13:40 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	200	mg/kg	B	10		SW6010B	10/21/03 02:18 / rth

Report Definitions: RL - Analyte reporting limit.

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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: AMPP  
 Lab ID: B03100432-004  
 Client Sample ID: T1/LA:Flood Alf, 6-24 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 13:30  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 13:11 / 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	10/22/03 13:40 / srm
Conductivity, Saturated Paste	4.06	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	47.0	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	18.4	meq/l	D	0.02		SW6010B	10/23/03 15:24 / rth
Magnesium, sat. paste	13.5	meq/l	D	0.02		SW6010B	10/23/03 15:24 / rth
Sodium, sat. paste	23.3	meq/l	D	0.02		SW6010B	10/23/03 15:24 / rth
Sodium Adsorption Ratio (SAR)	5.82	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	340	mg/kg		1		ASA10-3	10/21/03 22:50 / jb
Nitrate as N, KCL Extract	6	mg/kg		1		ASA38-3	10/17/03 11:30 / srm
Nitrate as N, KCL Extract	36	lbs/acre		1		Calculation	10/17/03 13:21 / srm

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



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-005  
 Client Sample ID: T1/LA:Flood Alf Spots, 0-6 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 15:00  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 13:11 / 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	10/22/03 13:40 / srm
Conductivity, Saturated Paste	5.10	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	57.4	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	23.5	meq/l	D	0.02		SW6010B	10/23/03 15:27 / rth
Magnesium, sat. paste	24.6	meq/l	D	0.02		SW6010B	10/23/03 15:27 / rth
Sodium, sat. paste	29.9	meq/l	D	0.02		SW6010B	10/23/03 15:27 / rth
Sodium Adsorption Ratio (SAR)	6.10	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	4.9	wt%		0.1		USDA23c	10/24/03 13:11 / srm
Sulfate as S	1040	mg/kg		1		ASA10-3	10/21/03 23:34 / jb
Phosphorus, Olsen	32	mg/kg		1		ASA24-5	10/17/03 09:30 / srm
Nitrate as N, KCL Extract	2	mg/kg		1		ASA38-3	10/17/03 11:33 / srm
Nitrate as N, KCL Extract	4	lbs/acre		1		Calculation	10/17/03 13:21 / srm
Organic Matter	1.33	wt%		0.02		ASA29-3	10/22/03 13:40 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	270	mg/kg	B	10		SW6010B	10/21/03 02:23 / rth

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-006  
 Client Sample ID: T1/LA:Flood Alf Spots, 6-24 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 15:00  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 13:11 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/22/03 13:40 / srm
Conductivity, Saturated Paste	9.67	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	57.7	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	23.7	meq/l	D	0.03		SW6010B	10/23/03 15:30 / rth
Magnesium, sat. paste	47.9	meq/l	D	0.03		SW6010B	10/23/03 15:30 / rth
Sodium, sat. paste	93.2	meq/l	D	0.03		SW6010B	10/23/03 15:30 / rth
Sodium Adsorption Ratio (SAR)	15.6	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	1820	mg/kg		1		ASA10-3	10/21/03 23:45 / jb
Nitrate as N, KCL Extract	2	mg/kg		1		ASA38-3	10/17/03 11:34 / srm
Nitrate as N, KCL Extract	12	lbs/acre		1		Calculation	10/17/03 13:21 / srm

Report Definitions: RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: AMPP  
 Project: AMPP  
 Lab ID: B03100432-007  
 Client Sample ID: T1/LA:Flood Grass, 0-6 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 14:00  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 13:11 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
<b>SATURATED PASTE</b>							
pH, sat. paste	7.4	s.u.		0.1		ASAM10-3.2	10/22/03 13:40 / srm
Conductivity, Saturated Paste	0.81	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	66.9	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	5.27	meq/l		0.01		SW6010B	10/23/03 15:43 / rth
Magnesium, sat. paste	3.29	meq/l		0.01		SW6010B	10/23/03 15:43 / rth
Sodium, sat. paste	1.61	meq/l		0.01		SW6010B	10/23/03 15:43 / rth
Sodium Adsorption Ratio (SAR)	0.78	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Lime as CaCO <sub>3</sub> , %	3.8	wt%		0.1		USDA23c	10/24/03 13:11 / srm
Sulfate as S	14	mg/kg		1		ASA10-3	10/21/03 23:56 / jb
Phosphorus, Olsen	7	mg/kg		1		ASA24-5	10/17/03 09:31 / srm
Nitrate as N, KCL Extract	4	mg/kg		1		ASA38-3	10/17/03 11:35 / srm
Nitrate as N, KCL Extract	7	lbs/acre		1		Calculation	10/17/03 13:21 / srm
Organic Matter	4.57	wt%		0.02		ASA29-3	10/22/03 13:40 / srm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium	290	mg/kg	B	10		SW6010B	10/21/03 02:40 / rth

Report Definitions: RL - Analyte reporting limit.

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: AMPP  
 Lab ID: B03100432-008  
 Client Sample ID: T1/LA:Flood Grass, 6-24 in

Report Date: 11/03/03  
 Collection Date: 10/02/03 14:00  
 Date Received: 10/08/03  
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>PHYSICAL CHARACTERISTICS</b>							
Texture	CL					ASA15-5	10/24/03 14:56 / 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	10/22/03 13:40 / srm
Conductivity, Saturated Paste	0.67	mmhos/cm		0.01		ASA10-3	10/22/03 13:40 / srm
Saturation	59.5	wt%		0.1		USDA27a	10/22/03 13:40 / srm
Calcium, sat. paste	3.48	meq/l		0.01		SW6010B	10/23/03 15:47 / rth
Magnesium, sat. paste	2.30	meq/l		0.01		SW6010B	10/23/03 15:47 / rth
Sodium, sat. paste	1.75	meq/l		0.01		SW6010B	10/23/03 15:47 / rth
Sodium Adsorption Ratio (SAR)	1.03	unitless		0.01		Calculation	10/24/03 13:11 / srm
<b>CHEMICAL CHARACTERISTICS</b>							
Sulfate as S	23	mg/kg		1		ASA10-3	10/22/03 00:07 / jb
Nitrate as N, KCL Extract	3	mg/kg		1		ASA38-3	10/17/03 11:36 / srm
Nitrate as N, KCL Extract	18	lbs/acre		1		Calculation	10/17/03 13:21 / srm

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

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