

**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-001  
**Client Sample ID:** T2/BHA-10-(0-6") [0-6]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	0.80	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	57.4	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	3.13	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
Nitrate as N, sat. paste	1.7	mg/L		0.1		ASA10-3	08/29/05 13:05 / sid
<b>SATURATED PASTE</b>							
Sulfate	290	mg/L		1		SW6010B	08/16/05 12:16 / rp
Calcium, sat. paste	3.84	meq/l		0.05		SW6010B	08/16/05 12:16 / rp
Magnesium, sat. paste	1.52	meq/l		0.08		SW6010B	08/16/05 12:16 / rp
Sodium, sat. paste	4.56	meq/l		0.04		SW6010B	08/16/05 12:16 / rp
Sulfate, sat. paste	6.04	meq/L		0.02		SW6010B	08/16/05 12:16 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	8	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	44	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	48	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	SiC	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	09/15/05 13:50 / sid
Potassium, NH4OAc Extractable	28	mg/kg		1		ASA13-3	08/30/05 11:08 / rp
Organic Matter	1.71	%		0.02		ASA29-3	08/26/05 14:57 / jjm
Cation Exchange Capacity	34.0	meq/100g		0.09		SW6010B	08/16/05 13:12 / rp
Lime as CaCO3	3.2	%		0.1		USDA23c	08/27/05 00:00 / jjm
Phosphorus	1.8	mg/kg		0.1		ASA24-5	08/22/05 13:12 / rp
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Potassium, Extractable	0.68	meq/100g		0.03		SW6010B	08/16/05 13:41 / rp
Sodium, Extractable	1.26	meq/100g		0.04		SW6010B	08/16/05 13:41 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	2.9	%		0.1		USDA20a	08/17/05 19:32 / jdh
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.51	mg/kg		0.02		SW6010B	08/18/05 08:55 / rp

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-001  
**Client Sample ID:** T2/BHA-10-(0-6") [0-6]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

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Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	0.6	mg/kg		0.2		SW6010B	08/17/05 08:00 / rp
Boron	0.4	mg/kg		0.2		SW6010B	08/17/05 08:00 / rp

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-002  
**Client Sample ID:** T2/BHA-10-(6-12") [6-12]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	0.69	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	58.0	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	3.2	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	3.85	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
Nitrate as N, sat. paste	2.1	mg/L		0.1		ASA10-3	08/29/05 13:07 / sld
<b>SATURATED PASTE</b>							
Sulfate	165	mg/L		1		SW6010B	08/16/05 12:19 / rp
Calcium, sat. paste	2.67	meq/l		0.05		SW6010B	08/16/05 12:19 / rp
Magnesium, sat. paste	1.10	meq/l		0.08		SW6010B	08/16/05 12:19 / rp
Sodium, sat. paste	4.36	meq/l		0.04		SW6010B	08/16/05 12:19 / rp
Sulfate, sat. paste	3.44	meq/L		0.02		SW6010B	08/16/05 12:19 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	10	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	40	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	50	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	C	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	36.6	meq/100g		0.09		SW6010B	08/16/05 13:15 / rp
Lime as CaCO3	4.1	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.24	meq/100g		0.04		SW6010B	08/16/05 12:48 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	2.7	%		0.1		USDA20a	08/17/05 19:32 / jdh

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-003  
**Client Sample ID:** T2/BHA-10-(12-24") [12-24]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	0.91	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	63.6	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	2.55	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
Nitrate as N, sat. paste	1.9	mg/L		0.1		ASA10-3	08/29/05 13:09 / sld
<b>SATURATED PASTE</b>							
Sulfate	419	mg/L		1		SW6010B	08/16/05 12:22 / rp
Calcium, sat. paste	4.07	meq/l		0.05		SW6010B	08/16/05 12:22 / rp
Magnesium, sat. paste	2.13	meq/l		0.08		SW6010B	08/16/05 12:22 / rp
Sodium, sat. paste	4.93	meq/l		0.04		SW6010B	08/16/05 12:22 / rp
Sulfate, sat. paste	8.73	meq/L		0.02		SW6010B	08/16/05 12:22 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	7	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	43	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	50	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	SiC	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	34.1	meq/100g		0.09		SW6010B	08/16/05 13:24 / rp
Lime as CaCO <sub>3</sub>	6.0	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.40	meq/100g		0.04		SW6010B	08/16/05 12:51 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	3.2	%		0.1		USDA20a	08/17/05 19:32 / jdh

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-004  
**Client Sample ID:** T2/BHA-10-(24-36") [24-36]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	3.35	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	56.5	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	1.26	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	29.2	meq/l		0.05		SW6010B	08/16/05 12:25 / rp
Magnesium, sat. paste	12.7	meq/l		0.08		SW6010B	08/16/05 12:25 / rp
Sodium, sat. paste	9.80	meq/l		0.04		SW6010B	08/16/05 12:25 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	9	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	44	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	47	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	SiC	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	29.4	meq/100g		0.09		SW6010B	08/16/05 13:27 / rp
Lime as CaCO3	5.2	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.47	meq/100g		0.04		SW6010B	08/16/05 12:54 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	3.1	%		0.1		USDA20a	08/17/05 19:32 / jdh

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-005  
**Client Sample ID:** T2/BHA-10-(36-60") [36-60]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	3.12	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	49.8	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	1.27	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	26.7	meq/l		0.05		SW6010B	08/16/05 12:28 / rp
Magnesium, sat. paste	9.74	meq/l		0.08		SW6010B	08/16/05 12:28 / rp
Sodium, sat. paste	8.33	meq/l		0.04		SW6010B	08/16/05 12:28 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	13	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	46	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	41	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	SiC	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	1.5	mg/kg		1.0		A4500-F C	08/29/05 00:00 / jjm
Cation Exchange Capacity	26.5	meq/100g		0.09		SW6010B	08/16/05 13:30 / rp
Lime as CaCO <sub>3</sub>	4.1	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.24	meq/100g		0.04		SW6010B	08/16/05 12:57 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	3.1	%		0.1		USDA20a	08/17/05 19:32 / jdh
<b>METALS, CaCl<sub>2</sub> EXTRACTABLE</b>							
Barium	ND	mg/kg		0.2		SW6010B	08/17/05 08:03 / rp
Boron	0.6	mg/kg		0.2		SW6010B	08/17/05 08:03 / rp

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-006  
**Client Sample ID:** T2/BHA-10-(60-96") [60-96]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	2.83	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	52.9	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	1.43	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	21.9	meq/l		0.05		SW6010B	08/16/05 12:31 / rp
Magnesium, sat. paste	10.1	meq/l		0.08		SW6010B	08/16/05 12:31 / rp
Sodium, sat. paste	5.97	meq/l		0.04		SW6010B	08/16/05 12:31 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	22	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	35	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	43	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	C	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	29.2	meq/100g		0.09		SW6010B	08/16/05 13:33 / rp
Lime as CaCO3	5.8	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.29	meq/100g		0.04		SW6010B	08/16/05 13:00 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	3.3	%		0.1		USDA20a	08/17/05 19:32 / jdh

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**LABORATORY ANALYTICAL REPORT**

**Client:** Fidelity E and P  
**Project:** AMPP Tier II  
**Lab ID:** H05080086-007  
**Client Sample ID:** T2/BHA-10-(0-2") [0-2]

**Report Date:** 09/01/05  
**Collection Date:** 08/08/05 17:00  
**Date Received:** 08/10/05  
**Matrix:** Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>SATURATED PASTE</b>							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	08/17/05 19:32 / jdh
Conductivity, sat. paste	0.47	mmhos/cm		0.01		ASAM10-3	08/17/05 19:32 / jdh
Saturation	55.8	%		0.1		USDA27a	08/17/05 19:32 / jdh
Sodium Adsorption Ratio (SAR)	3.0	unitless		0.01		Calculation	08/17/05 19:32 / jdh
Bicarbonate, sat. paste	2.97	meq/L		0.02		ASA10-3	08/26/05 14:32 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	1.51	meq/l		0.05		SW6010B	08/16/05 12:33 / rp
Magnesium, sat. paste	0.61	meq/l		0.08		SW6010B	08/16/05 12:33 / rp
Sodium, sat. paste	3.07	meq/l		0.04		SW6010B	08/16/05 12:33 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	8	%		1		ASA15-5	08/17/05 19:32 / jdh
Silt	44	%		1		ASA15-5	08/17/05 19:32 / jdh
Clay	48	%		1		ASA15-5	08/17/05 19:32 / jdh
Texture	SiC	unitless				ASA15-5	08/17/05 19:32 / jdh
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	36.8	meq/100g		0.09		SW6010B	08/16/05 13:36 / rp
Lime as CaCO3	3.4	%		0.1		USDA23c	08/27/05 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.39	meq/100g		0.04		SW6010B	08/16/05 13:03 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	08/17/05 19:32 / jdh
Exchangeable Sodium Percentage	3.3	%		0.1		USDA20a	08/17/05 19:32 / jdh

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