

# A & L WESTERN AGRICULTURAL LABORATORIES

1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736



REPORT NUMBER: 16-110-114

CLIENT NO: 9999-D

SEND TO: NATHAN KRAFT  
621 CHARLES E YOUNG DRIVE SOUTH  
LOS ANGELES, CA 90095-

SUBMITTED BY:

GROWER:

DATE OF REPORT: 04/26/16

## SOIL ANALYSIS REPORT

PAGE: 1

SAMPLE ID	LAB NUMBER	Organic Matter		Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Hydrogen	Cation Exchange Capacity	PERCENT CATION SATURATION (COMPUTED)				
		*	**	P1	NaHCO <sub>3</sub> -P	K	Mg	Ca	Na	Soil pH	Buffer Index	H meq/100g	C.E.C. meq/100g	K %	Mg %	Ca %	H %	Na %
		% Rating	ENR lbs/A	(Weak Bray) **** *	(OlsenMethod) **** *	**** *	**** *	**** *	**** *									
740	55694	4.0H	110	14L	10M	204M	2144VH	914VL	20VL	7.4		0.0	22.8	2.3	77.3	20.0	0.0	0.4
741	55695	3.7M	104	6VL	4L	241M	2778VH	876VL	22VL	7.1		0.0	27.9	2.2	81.8	15.6	0.0	0.3
742	55696	3.7M	104	3VL	6L	269M	2161VH	572VL	17VL	6.7		1.0	22.4	3.1	79.4	12.7	4.5	0.3
743	55697	3.9H	108	5VL	6L	204M	1599VH	571VL	14VL	6.6		1.1	17.6	3.0	74.5	16.2	6.0	0.3
744	55698	5.0H	129	8L	9M	289M	2012VH	555VL	15VL	7.1		0.0	20.1	3.7	82.2	13.8	0.0	0.3

SAMPLE NUMBER	Nitrogen	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Excess	Soluble	Chloride	NH <sub>4</sub> -N	PARTICLE SIZE ANALYSIS			
	NO <sub>3</sub> -N ppm	SO <sub>4</sub> -S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Lime Rating	Salts mmhos/cm	Cl ppm		SAND %	SILT %	CLAY %	SOIL TEXTURE
740	6L	2VL									6.7	31	20	49	CLAY
741	5L	1VL									8.3	19	26	55	CLAY
742	3VL	1VL									7.0	31	30	38	CLAY LOAM
743	3VL	1VL									6.6	41	32	26	LOAM
744	4VL	2VL									9.1	45	28	26	LOAM

\* CODE TO RATING: VERY LOW (VL), LOW (L), MEDIUM (M), HIGH (H), AND VERY HIGH (VH).

\*\* ENR - ESTIMATED NITROGEN RELEASE

\*\*\* MULTIPLY THE RESULTS IN ppm BY 2 TO CONVERT TO LBS. PER ACRE OF THE ELEMENTAL FORM

\*\*\*\* MULTIPLY THE RESULTS IN ppm BY 4.6 TO CONVERT TO LBS. PER ACRE P<sub>2</sub>O<sub>5</sub>

\*\*\*\*\* MULTIPLY THE RESULTS IN ppm BY 2.4 TO CONVERT TO LBS. PER ACRE K<sub>2</sub>O

MOST SOILS WEIGH TWO (2) MILLION POUNDS (DRY WEIGHT) FOR AN ACRE OF SOIL 6-2/3 INCHES DEEP

This report applies only to the sample(s) tested. Samples are retained a maximum of thirty days after testing.

*Phoebe Gordon*

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		*	**	P1	NaHCO <sub>3</sub> -P	K	Mg	Ca	Na	Soil pH	Buffer Index	H meq/100g	C.E.C. meq/100g	K %	Mg %	Ca %	H %	Na %
		% Rating	ENR lbs/A	(Weak Bray) **** *	(Olsen Method) **** *	**** *	**** *	**** *	**** *									
745	55699	4.7H	124	5VL	5L	162L	2378VH	461VL	14VL	6.8		0.7	23.0	1.8	85.0	10.0	3.0	0.3
746	55700	3.8H	106	4VL	6L	208M	2088VH	479VL	16VL	7.2		0.0	20.2	2.6	85.2	11.9	0.0	0.3
747	55701	3.5M	100	6VL	6L	146M	1369VH	327VL	11VL	6.9		0.2	13.5	2.8	83.3	12.1	1.5	0.3
748	55702	2.7M	83	6VL	7L	112L	1640VH	320VL	12VL	7.4		0.0	15.4	1.9	87.5	10.4	0.0	0.3
749	55703	4.7H	124	8L	9M	207M	1878VH	725VL	17VL	7.2		0.0	19.7	2.7	78.5	18.4	0.0	0.4

SAMPLE NUMBER	Nitrogen	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Excess	Soluble	Chloride	NH <sub>4</sub> -N	PARTICLE SIZE ANALYSIS			
	NO <sub>3</sub> -N ppm	SO <sub>4</sub> -S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Lime Rating	Salts mmhos/cm	Cl ppm		SAND %	SILT %	CLAY %	SOIL TEXTURE
745	3VL	2VL									8.1	37	24	38	CLAY LOAM
746	4VL	1VL									5.8	45	20	34	SANDY CLAY LOAM
747	3VL	2VL									7.0	67	14	18	SANDY LOAM
748	3VL	1VL									5.9	71	8	20	SANDY LOAM
749	4VL	1VL									6.1	57	16	26	SANDY CLAY LOAM

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		*	**	P1	NaHCO <sub>3</sub> -P	K	Mg	Ca	Na	Soil pH	Buffer Index	H meq/100g	C.E.C. meq/100g	K %	Mg %	Ca %	H %	Na %
		% Rating	ENR lbs/A	(Weak Bray) **** *	(OlsenMethod) **** *	**** *	**** *	**** *	**** *									
750	55704	3.5M	100	9L	12M	228M	2046VH	462VL	14VL	7.0		0.0	19.8	3.0	85.1	11.7	0.0	0.3
751	55705	3.8H	106	4VL	5L	259M	3105VH	728VL	17VL	7.0		0.0	29.9	2.2	85.4	12.2	0.0	0.3
752	55706	4.8H	126	11L	12M	232M	1857VH	614VL	13VL	6.6		1.2	20.2	2.9	75.6	15.2	6.0	0.3
753	55707	4.3H	116	2VL	4L	166L	2130VH	752VL	24VL	7.2		0.0	21.8	2.0	80.3	17.2	0.0	0.5
754	55708	4.0H	111	2VL	4L	205M	2135VH	1154VL	25VL	7.4		0.0	23.9	2.2	73.3	24.0	0.0	0.4

SAMPLE NUMBER	Nitrogen	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Excess	Soluble	Chloride	NH <sub>4</sub> -N	PARTICLE SIZE ANALYSIS			
	NO <sub>3</sub> -N ppm	SO <sub>4</sub> -S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Lime Rating	Salts mmhos/cm	Cl ppm		SAND %	SILT %	CLAY %	SOIL TEXTURE
750	3VL	1VL									9.1	45	24	30	SANDY CLAY LOAM
751	3VL	1VL									8.6	53	24	22	SANDY CLAY LOAM
752	3VL	2VL									9.8	37	30	32	CLAY LOAM
753	5L	1VL									10.0	37	20	42	CLAY
754	6L	1VL									9.0	31	26	42	CLAY

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		*	**	P1	NaHCO <sub>3</sub> -P	K	Mg	Ca	Na	Soil pH	Buffer Index	H meq/100g	C.E.C. meq/100g	K %	Mg %	Ca %	H %	Na %
		% Rating	ENR lbs/A	(Weak Bray) **** *	(Olsen Method) **** *	**** *	**** *	**** *	**** *									
755	55709	3.8H	107	4VL	7L	196M	1599VH	445VL	12VL	6.9		0.2	16.2	3.1	81.3	13.7	1.5	0.3
756	55710	2.9M	88	37H	19**	192M	667VH	1336L	23VL	5.9	6.7	2.6	15.4	3.2	35.7	43.4	17.0	0.6
757	55711	3.4M	98	53VH	29M	261M	971VH	1213L	21VL	6.2	6.7	2.0	16.8	4.0	47.5	36.0	12.0	0.5
758	55712	8.1VH	193	33H	21H	391H	384M	2457M	16VL	6.6		1.1	17.5	5.7	18.0	69.9	6.0	0.4
759	55713	13.0VH	290	36H	22H	386H	463H	2543H	21VL	6.9		0.3	17.8	5.5	21.3	71.1	1.5	0.5

\*\* NaHCO<sub>3</sub>-P unreliable at this soil pH

SAMPLE NUMBER	Nitrogen	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Excess	Soluble	Chloride	NH <sub>4</sub> -N	PARTICLE SIZE ANALYSIS			
	NO <sub>3</sub> -N ppm	SO <sub>4</sub> -S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Lime Rating	Salts mmhos/cm	Cl ppm		SAND %	SILT %	CLAY %	SOIL TEXTURE
755	3VL	2VL									9.2	45	26	28	SANDY CLAY LOAM
756	3VL	1VL									8.3	45	30	24	LOAM
757	3VL	1VL									6.0	37	30	32	CLAY LOAM
758	7L	2VL									4.7	57	24	18	SANDY LOAM
759	10L	4L									8.3	64	18	18	SANDY LOAM

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		*	**	P1 (Weak Bray) **** *	NaHCO <sub>3</sub> -P (Olsen Method) **** *	K ***** *	Mg *** *	Ca *** *	Na *** *	Soil pH	Buffer Index	H meq/100g		K %	Mg %	Ca %	H %	Na %
		% Rating	ENR lbs/A	ppm	ppm	ppm	ppm	ppm	ppm									
760	55714	2.7M	85	13 *	8M	231M	582M	3756VH	13VL	7.7		0.0	24.2	2.4	19.8	77.5	0.0	0.2
761	55715	3.6M	102	29H	20H	425M	1046VH	2406L	14VL	7.3		0.0	21.8	5.0	39.5	55.2	0.0	0.3
762	55716	3.7M	104	60VH	37VH	444VH	235M	1586H	14VL	6.9		0.2	11.2	10.1	17.3	70.6	1.5	0.5
763	55717	3.6M	101	43VH	26VH	364H	561VH	1485L	19VL	6.8		0.4	13.4	6.9	34.3	55.1	3.0	0.6

\* Weak Bray unreliable at M or H excess lime or pH > 7.5

SAMPLE NUMBER	Nitrogen NO <sub>3</sub> -N ppm	Sulfur SO <sub>4</sub> -S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Excess Lime Rating	Soluble Salts mmhos/cm	Chloride Cl ppm	NH <sub>4</sub> -N	PARTICLE SIZE ANALYSIS			
												SAND %	SILT %	CLAY %	SOIL TEXTURE
760	2VL	2VL									4.5	44	28	28	CLAY LOAM
761	3VL	1VL									3.9	32	26	42	CLAY
762	8L	3VL									3.0	44	38	18	LOAM
763	3VL	4L									3.2	62	20	18	SANDY LOAM

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