EXHIBIT E-2

DAVID A. STEINER, CPESC, CPSWQ

USLE LAYOUT AND PRACTICE ALTERNATIVES A=(R)(K)(LS)(C)(P)

FOR: Long Ranch
Post-project
SOIL TYPE: 176 (152), 154, 178 T= 1, 1, 2
USER: DAS
DATE: 2-May-19

		Transect	I		II		III		IV		V	
# /ACRES:			2.1		3.5		4.4		4.3		1.6	
FACTOR:	DESCRIPTION		#1	/Describe	#2	/Describe	#3	/Describe	#4	/Describe	#5	/Describe
R	Rainfall		69		69		69		69		69	
K	Soil Erosiveness		0.24	T=1.65 (seg)	0.10	T=1	0.10	T=1	0.10	T=1	0.10	T=1
	Slope length (ft)		350		535		490		476		152	
S	Gradient		18.9		17.2		13.9		12.2		19.7	
LS	Calculated LS		5.80	segmented	6.12	segmented	5.52	segmented	4.99	segmented	4.21	
C	Cover		0.022	80%, no-till	0.022	80%, no-till	0.022	80%, no-till	0.022	80%, no-till	0.022	80%, no-till
P	Practice		1	vertical	1	vertical	1	vertical	1	vertical	0.67	cross, no-till
A	Soil loss, tons/acre		2.14		0.93		0.84		0.76		0.43	
	Soil loss, tons		4.49		3.25		3.68		3.26		0.68	

A=(R)(K)(LS)(C)(P)

Total Soil Loss This Sheet: **14.69** **Tons**

Transect I	Segmented LS		
Segments	1	2	Use
Length	350	350	
Gradient	20.6	17.1	
LS	6.77	5.28	
Factor	0.35	0.65	
Product	2.370	3.432	5.802

Transect I	Segmented K		
Segments	1	2	Use
Length	175	175	
Gradient			
K	0.10	0.32	
Factor	0.35	0.65	
Product	0.035	0.208	0.243

Transect I	Segmented T		
Segments	1	2	Use
Length	175	175	

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Gradient			
T	1.00	2.00	
Factor	0.35	0.65	
Product	0.350	1.300	1.650

Transect II	Segmented LS		
Segments	1	2	Use
Length	536	536	
Gradient	19.3	14.6	
LS	7.68	5.28	
Factor	0.35	0.65	
Product	2.688	3.432	6.120

Transect III	Segmented LS		
Segments	1	2	Use
Length	490	490	
Gradient	9.0	18.8	
LS	2.59	7.09	
Factor	0.35	0.65	
Product	0.907	4.609	5.515

Transect IV	Segmented LS		
Segments	1	2	Use
Length	476	476	
Gradient	6.3	18.5	
LS	1.56	6.84	
Factor	0.35	0.65	
Product	0.546	4.446	4.992

DAVID A. STEINER, CPESC, CPSWQ

USLE LAYOUT AND PRACTICE ALTERNATIVES A=(R)(K)(LS)(C)(P)

FOR: Long Ranch
Pre-project
SOIL TYPE: 176 (152), 178 T= 1, 1, 2
USER: DAS
DATE: 2-May-19

		Transect	I		II		III		IV		V	
# /ACRES:			2.1		3.5		4.4		4.3		1.6	
FACTOR:	DESCRIPTION		#1	/Describe	#2	/Describe	#3	/Describe	#4	/Describe	#5	/Describe
R	Rainfall		69		69		69		69		69	
K	Soil Erosiveness		0.243	T=1.65 (seg)	0.10	T=1	0.10	T=1	0.10	T=1	0.10	T=1
	Slope length (ft)		350		535		490		476		152	
S	Gradient		18.9		17.2		13.9		12.2		19.7	
LS	Calculated LS		5.80	segmented	6.12	segmented	5.52	segmented	4.99	segmented	4.21	
C	Cover		0.036	segmented	0.058	segmented	0.061	segmented	0.073	segmented	0.027	[4]
P	Practice		1	vertical	1	vertical	1	vertical	1	vertical	1	vertical
A	Soil loss, tons/acre		3.50		2.45		2.32		2.51		0.78	
	Soil loss, tons		7.35		8.57		10.21		10.81		1.25	

m:	#1	#2	#3	#4	#5
	0.5	0.5	0.5	0.5	0.5

A=(R)(K)(LS)(C)(P)

Total Soil Loss This Sheet: **36.95** **Tons**

Transect I	Segmented LS		
Segments	1	2	Use
Length	350	350	
Gradient	20.6	17.1	
LS	6.77	5.28	
Factor	0.35	0.65	
Product	2.370	3.432	5.802

Transect I	Segmented K		
Segments	1	2	Use
Length	175	175	
Gradient			
K	0.10	0.32	
Factor	0.35	0.65	
Product	0.035	0.208	0.243

Transect I	Segmented T		
Segments	1	2	Use
Length	175	175	
Gradient			
T	1.00	2.00	
Factor	0.35	0.65	
Product	0.350	1.300	1.650

Transect I	Segmented C			
Segments	1	2	3	Use
Length	117	117	117	
Table 5 (footnotes)	[1]	[2]	[2]	
C	0.044	0.034	0.034	
Factor	0.19	0.35	0.46	
Product	0.008	0.012	0.016	0.036

Transect II	Segmented LS		
Segments	1	2	Use
Length	536	536	

Transect III	Segmented LS		
Segments	1	2	Use
Length	490	490	

Gradient	19.3	14.6	
LS	7.68	5.28	
Factor	0.35	0.65	
Product	2.688	3.432	6.120

Transect II	Segmented C				
Segments	1	2	3	4	Use
Length	134	134	134	134	
Table 5 (above)	[3]	[4]	[5]	[6]	
C	0.028	0.027	0.056	0.090	
Factor	0.12	0.23	0.3	0.35	
Product	0.003	0.006	0.017	0.032	0.058

Gradient	9.0	18.8	
LS	2.59	7.09	
Factor	0.35	0.65	
Product	0.907	4.609	5.515

Transect IV	Segmented LS		
Segments	1	2	Use
Length	476	476	
Gradient	6.3	18.5	
LS	1.56	6.84	
Factor	0.35	0.65	
Product	0.546	4.446	4.992

Transect III	Segmented C					
Segments	1	2	3	4	5	Use
Length	98	98	98	98	98	
Table 5	[7]	[7]	[8]	[9]	[9]	
C	0.053	0.053	0.078	0.059	0.059	
Factor	0.09	0.16	0.21	0.25	0.28	
Product	0.005	0.008	0.016	0.015	0.017	0.061

Transect IV	Segmented C				
Segments	1	2	3	4	Use
Length	119	119	119	119	
Table 5	[10]	[8]	[10]	[11]	
C	0.099	0.078	0.099	0.038	
Factor	0.12	0.23	0.3	0.35	
Product	0.012	0.018	0.030	0.013	0.073

FROM TABLE 5, "Special Applications FOR Napa County"

____[1]75% Low Brush; 70% cover: 30 G, 70 W
____[2]50% Low Brush; 70% cover: 70 G, 30 W
____[3]50% Low Brush; 70% cover: 60 G, 40 W
____[4]50% Low Brush; 80% cover: 50 G, 50 W
____[5]25% Low Brush; 60% cover: 60 G, 40 W
____[6]50% Low Brush; 40% cover: 50 G, 50 W
____[7]75% Low Brush; 70% cover: 0 G, 100 W
____[8]75% High Brush; 60% cover: 0 G, 100W
____[9]75% High Brush; 70% cover: 0 G, 100W
____[10]75% High Brush; 50% cover: 0 G, 100W
____[11]75% Low Brush; 80% cover: 0 G. 100 W