

8896.2-301
8896.2-603

06/20/2003 15:24 8316252558

KWH, Salinity + '75-
Pumps on/off 2003

El Sur Ranch - Acre Feet @ 158.49 per Pump KWH (1975-2002): 290 acres												
	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH
Month	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JAN	20	549	0	0	0	0	0	0	0	4,740	0	0
FEB	12	5,820	0	0	0	0	0	0	0	0	0	0
MAR	11	8,943	23,267	0	0	0	0	0	0	0	0	0
APR	0	8,943	34,323	0	0	0	0	0	0	38,720	0	0
MAY	6,143	35,870	33,410	0	9,960	3,870	24,130	20,330	0	41,970	38,540	16,900
JUN	32,550	31,373	38,525	0	38,650	38,160	34,550	33,790	4,810	43,700	43,600	54,380
JUL	34,783	32,045	30,450	0	34,890	33,050	36,400	34,190	35,240	40,630	36,990	30,400
AUG	34,753	33,960	32,100	95,737	35,230	31,850	38,890	31,040	22,460	48,290	33,690	31,970
SEP	22,471	31,955	31,005	51,850	28,330	31,460	27,070	34,370	10,240	28,340	5,140	20,360
OCT	10,570	6,763	18,302	25,840	27,400	12,640	15,660	22,960	7,740	34,120	0	0
NOV	100	8,654	20,192	0	0	18,160	0	170	0	0	0	6,410
DEC	549	0	0	0	0	6,200	0	0	0	0	0	0
TOTAL	141,962	204,875	261,574	173,427	174,460	175,390	176,700	176,850	80,490	280,510	157,960	162,420
Acre Feet	896	1293	1650	1094	1101	1107	1115	1116	508	1770	997	1025
Per Acre	3.09	4.46	5.69	3.77	3.80	3.82	3.84	3.85	1.75	6.10	3.44	3.53

El Sur Ranch		KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	ACRE FEET
Month	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
JAN	0	0	0	0	2,676	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APR	0	38,298	0	8,050	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0
MAY	0	3,322	0	23,021	8,283	7,603	25517	2694	0	0	0	0	0	0	0	0	0	0	0
JUN	44,060	42,600	0	9,922	31,497	76,531	28528	23932	0	0	0	0	0	0	0	0	0	0	130
JUL	42,290	10,877	14,758	9,628	30,631	31,015	32490	23932	13947	27331	172	0	0	0	0	0	0	0	0
AUG	32,950	11,356	12,624	27,823	21,754	34,512	35026	23932	13313	29515	186	0	0	0	0	0	0	0	0
SEP	31,510	15,922	25,893	43,171	18,593	38,662	32966	17275	36136	30433	192	0	0	0	0	0	0	0	0
OCT	1,580	34,523	21,464	31,954	27,297	19,076	32966	17275	24883	20605	130	0	0	0	0	0	0	0	0
NOV	0	12,154	0	10,255	0	0	0	0	32332	1,293	8	0	0	0	0	0	0	0	0
DEC	0	0	0	0	9,185	0	0	0	17909	0	0	0	0	0	0	0	0	0	0
TOTAL	152,390	169,052	74,739	163,825	149,916	207,399	187,566	109,041	138,520	156,074									
Acre Feet	962	1067	472	1034	946	1309	1183	688	874	985	985								
Per Acre	3.32	3.68	1.63	3.56	3.26	4.51	4.08	2.37	3.01	3.40									

El Sur Ranch		Period	KWH	ACRE	Period	KWH	ACRE	Period	KWH	ACRE
Month	per PG&E	1997	1997	1997	per PG&E	1998	1998	per PG&E	1999	1999
JAN	12/21-1/21	-	-	-	-	-	-	12/22-1/22	-	-
FEB	1/21-2/20	-	-	-	-	-	-	1/22-2/23	-	-
MAR	2/20-3/21	13	-	0	-	-	-	2/23-3/25	107	1
APR	3/21-4/22	22,678	-	143	-	-	-	3/25-4/23	-	-
MAY		-	-	-	-	-	-		-	-
JUN	4/22-6/23	52,497	-	331	-	-	-	4/24-6/23	33,609	212
JUL	6/23-7/24	18,046	-	114	-	-	-	6/23-7/23	20,436	129
AUG	7/24-8/22	18,753	-	118	-	-	-	7/23-8/24	34,150	215
SEP	8/22-9/23	23,358	-	147	-	-	-	8/24-9/23	24,478	154
OCT	9/23-10/22	18,978	-	120	-	-	-	Per 2000 LY	17,402	110
NOV	10/22-11/21	-	-	-	-	-	-	10/25-11/23	-	-
DEC	11/22-12/23	-	-	-	-	-	-	11/23-12/24	-	-
TOTAL		154,323				90,371			130,182	
Acre Feet		974		974		570			821	821
Per Acre		3.36				1.97			2.83	

El Sur Ranch		2000		2001		2002	
Month	Period per PG&E	KWH	Acre Feet	KWH	Acre Feet	KWH	Acre Feet
JAN	12/24-1/26	-	-	-	-	-	-
FEB	1/26-2/25	-	-	-	-	-	-
MAR	2/25-3/27	-	-	-	-	-	-
APR	3/27-4/25	-	-	-	-	-	-
MAY	4/25-5/25	7,179	45	7,604	48	36	0
JUN	5/25-6/26	39,673	250	36,321	229	31,144	197
JUL	6/26-7/26	24,844	157	33,561	212	33,512	211
AUG	7/26-8/24	22,451	142	22,473	142	25,998	164
SEP	8/24-9/25	36,923	233	30,423	192	20,096	127
OCT	9/25-10/24	6,697	42	4,092	26	20,316	128
NOV	10/24-11/22	-	-	-	-	-	-
DEC	11/22-12/22	-	-	-	-	-	-
TOTAL		137,767		134,474		148,051	
Acre Feet		869	869	848	848	934	934
Per Acre		3.00		2.93		3.22	

ESR Water thru 2002 Data 1975-2002 6/20/03

EL SUR PLANT PUMP DATA

ESR Safety (1 = On), 0 = Off; Salt Factor shown is Highest of Two when applicable

Date	1989		1990		1991		1992		1993		1994		1995		1996		1997	
	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
1-Apr																		
2-Apr																		
3-Apr																		
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28-May																		
29-May																		
30-May																		

EL SUR SANCTI PUMP DATA

ESR Station # 10 - City, S = Old, N = New, S/S = Salt, F/Factor shown is Highest of Two When Applicable

Date	1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		
	Old	New	Salt	Salt	Old	New	Salt	Salt	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	
31-Mar	1	0.33			1	0.33			1	0.32											
1-Apr	1	0.50			1	0.50			1	0.32											
2-Apr	1	0.50			1	0.20			1	0.32											
3-Apr	1	0.50			1	0.32			1	0.32											
4-Apr	1	0.65			1	0.32			1	0.32											
5-Apr	1	0.65			1	0.20			1	0.45											
6-Apr	1	0.80			1	0.40			1	0.45											
7-Apr	1	0.80			1	0.24			1	0.45											
8-Apr	1	0.98			1	0.24			1	0.55											
9-Apr	1	1.35			1	0.20			1	0.55											
10-Apr	1	1.10			1	0.20			1	0.70											
11-Apr	1	1.05			1	0.32			1	0.70											
12-Apr	1	0.85			1	0.20			1	0.65											
13-Apr	1	0.70			1	0.21			1	0.60											
14-Apr	1	1.30			1	0.50			1	0.54											
15-Apr	1	1.20			1	0.90			1	0.60											
16-Apr	1	2.10			1	0.47			1	0.62											
17-Apr	1	0.70			1	0.80			1	0.52											
18-Apr	1	1.45			1	0.75			1	0.52											
19-Apr	1	1.25			1	0.65			1	0.54											
20-Apr	1	0.90			1	0.65			1	0.41											
21-Apr	1	0.90			1	0.90			1	0.35											
22-Apr	1	1.20			1	0.90			1	0.40											
23-Apr	1	1.50			1	0.75			1	0.40											
24-Apr	1	1.50			1	0.70			1	0.35											
25-Apr	1	1.35			1	0.90			1	0.35											
26-Apr	1	1.35			1	0.70			1	0.35											
27-Apr	1	0.80			1	0.85			1	0.35											
28-Apr	1	1.30			1	0.85			1	0.35											
29-Apr	1	1.40			1	0.70			1	0.34											
30-Apr	1	1.25			1	0.85			1	0.34											
1-May	1	1.20			1	1.10			1	0.34											
2-May	1	1.50			1	0.80			1	0.32											
3-May	1	1.40			1	0.90			1	0.22											
4-May	1	1.30			1	0.90			1	0.32											
5-May	1	1.20			1	0.85			1	0.85											
6-May	1	1.05			1	0.85			1	1.00											
7-May	1	1.10			1	0.90			1	1.10											
8-May	1	1.40			1	0.75			1	0.15											
9-May	1	1.30			1	0.20			1	0.15											
10-May	1	1.30			1	0.40			1	0.20											
11-May	1	0.80			1	0.70			1	0.20											
12-May	1	0.80			1	0.25			1	0.20											
13-May	1	0.80			1	0.80			1	0.20											
14-May	1	1.50			1	1.05			1	0.20											
15-May	1	1.60			1	1.30			1	0.30											
16-May	1	1.70			1	1.10			1	0.30											
17-May	1	1.70			1	1.10			1	0.30											
18-May	1	1.80			1	1.20			1	0.30											
19-May	1	1.90			1	1.30			1	0.35											
20-May	1	2.00			1	1.40			1	0.35											
21-May	1	1.40			1	1.40			1	0.32											
22-May	1	1.70			1	1.10			1	0.32											
23-May	1	1.50			1	0.80			1	0.31											
24-May	1	1.40			1	0.60			1	0.30											
25-May	1	0.85			1	0.80			1	0.30											
26-May	1	1.40			1	0.85			1	0.20											
27-May	1	0.85			1	0.70			1	0.25											
28-May	1	2.00			1	0.80			1	0.30											
29-May	1	2.00			1	0.80			1	0.30											
30-May	1	2.00			1	0.80			1	0.30											

EL SUR RANCH PUMP DATA

Date	1989		1990		1991		1992		1993		1994		1995		1996		1997	
	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal
28-Sep	1	0.40	1	0.35	1	0.40	1	0.30	1	0.25	1	0.25	1	0.3	1	0.8		
29-Sep	1	0.40	1	0.35	1	0.40	1	0.50	1	0.25	1	0.25	1	0.3	1	0.8		
30-Sep	1	0.40	1	0.35	1	0.40	1	0.50	1	0.25	1	0.25	1	0.3	1	0.8		
1-Oct	1	0.40	1	0.35	1	0.40	1	0.60	1	0.25	1	0.25	1	0.3	1	0.8		
2-Oct	1	0.40	1	0.35	1	0.40	1	0.70	1	0.25	1	0.25	1	0.3	1	0.8		
3-Oct	1	0.40	1	0.35	1	0.40	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
4-Oct	1	0.40	1	0.35	1	0.40	1	0.90	1	0.25	1	0.25	1	0.3	1	0.8		
5-Oct	1	0.40	1	0.35	1	0.40	1	0.95	1	0.25	1	0.25	1	0.3	1	0.8		
6-Oct	1	0.40	1	0.35	1	0.40	1	0.90	1	0.25	1	0.25	1	0.3	1	0.8		
7-Oct	1	0.40	1	0.35	1	0.40	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
8-Oct	1	0.30	1	0.20	1	0.20	1	0.90	1	0.25	1	0.25	1	0.3	1	0.8		
9-Oct	1	0.30	1	0.20	1	0.20	1	1.00	1	0.25	1	0.25	1	0.3	1	0.8		
10-Oct	1	0.28	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
11-Oct	1	0.28	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
12-Oct	1	0.25	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
13-Oct	1	0.28	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
14-Oct	1	0.28	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
15-Oct	1	0.28	1	0.20	1	0.20	1	1.10	1	0.25	1	0.25	1	0.3	1	0.8		
16-Oct	1	0.25	1	0.20	1	0.20	1	0.85	1	0.25	1	0.25	1	0.3	1	0.8		
17-Oct	1	0.25	1	0.20	1	0.20	1	0.85	1	0.25	1	0.25	1	0.3	1	0.8		
18-Oct	1	0.25	1	0.20	1	0.20	1	0.85	1	0.25	1	0.25	1	0.3	1	0.8		
19-Oct	1	0.25	1	0.20	1	0.20	1	0.85	1	0.25	1	0.25	1	0.3	1	0.8		
20-Oct	1	0.25	1	0.20	1	0.20	1	0.85	1	0.25	1	0.25	1	0.3	1	0.8		
21-Oct	1	0.28	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
22-Oct	1	0.28	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
23-Oct	1	0.28	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
24-Oct	1	0.28	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
25-Oct	1	0.30	1	0.25	1	0.25	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
26-Oct	1	0.25	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
27-Oct	1	0.24	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
28-Oct	1	0.20	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
29-Oct	1	0.25	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
30-Oct	1	0.25	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
31-Oct	1	0.24	1	0.20	1	0.20	1	0.80	1	0.25	1	0.25	1	0.3	1	0.8		
Days On	50	39	59	116	70	186	137	98	203	81	168	59	76	735	104	161	97	74
% Total	58%	44%	100%	52%	35%	100%	72%	48%	100%	48%	100%	44%	55%	100%	58%	70%	97%	43%

EL SUR BLANICE PUMP DATA

Date	1998		1999		2000		2001		2002	
	Old	New	Old	New	Old	New	Old	New	Old	New
1-Apr		0.25								
2-Apr		0.25								
3-Apr		0.25								
4-Apr		0.23								
5-Apr		0.23								
6-Apr		0.2								
7-Apr		0.2								
8-Apr		0.2								
9-Apr		0.2								
10-Apr		0.2								
11-Apr		0.2								
12-Apr		0.2								
13-Apr		0.2								
14-Apr		0.2								
15-Apr		0.2								
16-Apr		0.2								
17-Apr		0.2								
18-Apr		0.2								
19-Apr		0.2								
20-Apr		0.2								
21-Apr		0.2								
22-Apr		0.2								
23-Apr		0.2								
24-Apr		0.2								
25-Apr		0.2								
26-Apr		0.2								
27-Apr		0.2								
28-Apr		0.2								
29-Apr		0.2								
30-Apr		0.2								
1-May		0.2								
2-May		0.2								
3-May		0.2								
4-May		0.2								
5-May		0.2								
6-May		0.2								
7-May		0.2								
8-May		0.2								
9-May		0.2								
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14-May		0.2								
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16-May		0.2								
17-May		0.2								
18-May		0.2								
19-May		0.2								
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22-May		0.2								
23-May		0.2								
24-May		0.2								
25-May		0.2								
26-May		0.2								
27-May		0.2								
28-May		0.2								
29-May		0.2								
30-May		0.2								

EL SUR RANCH PUMP DATA

Date	1998		1999		2000		2001		2002	
	Old	New	Old	New	Old	New	Old	New	Old	New
31-May										
1-Jun			1	0.2	1	0.25	1	1	1	0.31
2-Jun			1	0.2	1	0.25	1	1	1	0.34
3-Jun			1	0.2	1	0.21	1	1	1	0.2
4-Jun			1	0.2	1	0.22	1	1	1	0.4
5-Jun			1	0.2	1		1	1	1	0.71
6-Jun			1		1	0.22	1	1	1	0.71
7-Jun			1		1	0.22	1	1	1	0.8
8-Jun			1		1	0.26	1	1	1	0.85
9-Jun			1	0.2	1	0.24	1	1	1	0.68
10-Jun			1	0.2	1	0.24	1	1	1	0.47
11-Jun			1	0.2	1	0.24	1	1	1	0.51
12-Jun			1	0.2	1	0.24	1	1	1	0.8
13-Jun			1	0.175	1	0.24	1	1	1	0.87
14-Jun			1	0.175	1	0.24	1	1	1	1.2
15-Jun			1		1	0.22	1	1	1	
16-Jun			1	0.2	1	0.25	1	1	1	
17-Jun			1	0.2	1		1	1	1	
18-Jun			1		1		1	1	1	
19-Jun			1		1		1	1	1	
20-Jun			1		1		1	1	1	
21-Jun			1	0.2	1	0.25	1	1	1	0.3
22-Jun			1	0.2	1	0.25	1	1	1	0.46
23-Jun			1	0.2	1	0.25	1	1	1	
24-Jun			1	0.2	1	0.25	1	1	1	
25-Jun			1	0.2	1	0.25	1	1	1	
26-Jun			1	0.2	1	0.25	1	1	1	
27-Jun			1	0.2	1	0.25	1	1	1	
28-Jun			1	0.2	1	0.25	1	1	1	
29-Jun			1	0.2	1	0.25	1	1	1	
30-Jun			1	0.2	1	0.25	1	1	1	
1-Jul			1	0.2	1	0.25	1	1	1	
2-Jul			1	0.2	1	0.25	1	1	1	
3-Jul			1	0.2	1	0.25	1	1	1	
4-Jul			1	0.2	1	0.25	1	1	1	
5-Jul			1	0.2	1	0.25	1	1	1	
6-Jul			1	0.2	1	0.25	1	1	1	
7-Jul			1	0.2	1	0.25	1	1	1	
8-Jul			1	0.2	1	0.25	1	1	1	
9-Jul			1	0.2	1	0.25	1	1	1	
10-Jul			1	0.175	1	0.25	1	1	1	
11-Jul			1	0.2	1	0.25	1	1	1	
12-Jul			1	0.2	1	0.25	1	1	1	
13-Jul			1	0.2	1	0.25	1	1	1	
14-Jul			1	0.2	1	0.25	1	1	1	
15-Jul			1	0.2	1	0.25	1	1	1	
16-Jul			1	0.2	1	0.25	1	1	1	
17-Jul			1	0.2	1	0.25	1	1	1	
18-Jul			1	0.2	1	0.25	1	1	1	
19-Jul			1	0.2	1	0.25	1	1	1	
20-Jul			1	0.2	1	0.25	1	1	1	
21-Jul			1	0.2	1	0.25	1	1	1	
22-Jul			1	0.2	1	0.25	1	1	1	
23-Jul			1	0.2	1	0.25	1	1	1	
24-Jul			1	0.2	1	0.25	1	1	1	
25-Jul			1	0.2	1	0.25	1	1	1	
26-Jul			1	0.2	1	0.25	1	1	1	
27-Jul			1	0.2	1	0.25	1	1	1	
28-Jul			1	0.2	1	0.25	1	1	1	
29-Jul			1	0.2	1	0.25	1	1	1	
30-Jul			1	0.2	1	0.25	1	1	1	

ES SUB RANCH PUMP DATA

Date	1998		1999		2000		2001		2002	
	Old	New	Old	New	Old	New	Old	New	Old	New
30-Jul										
31-Jul										
1-Aug										
2-Aug										
3-Aug										
4-Aug										
5-Aug										
6-Aug										
7-Aug										
8-Aug										
9-Aug										
10-Aug										
11-Aug										
12-Aug										
13-Aug										
14-Aug										
15-Aug										
16-Aug										
17-Aug										
18-Aug										
19-Aug										
20-Aug										
21-Aug										
22-Aug										
23-Aug										
24-Aug										
25-Aug										
26-Aug										
27-Aug										
28-Aug										
29-Aug										
30-Aug										
31-Aug										
1-Sep										
2-Sep										
3-Sep										
4-Sep										
5-Sep										
6-Sep										
7-Sep										
8-Sep										
9-Sep										
10-Sep										
11-Sep										
12-Sep										
13-Sep										
14-Sep										
15-Sep										
16-Sep										
17-Sep										
18-Sep										
19-Sep										
20-Sep										
21-Sep										
22-Sep										
23-Sep										
24-Sep										
25-Sep										
26-Sep										
27-Sep										

EL SUR RANCH PUMP DATA

Date	1998		1999		2000		2001		2002	
	Old	New	Old	New	Old	New	Old	New	Old	New
	Sm	Smt	Sm	Smt	Sm	Smt	Sm	Smt	Sm	Smt
28-Sep	0.2	0.25	1	0.25						
30-Sep	0.25	0.2	1	0.25						
1-Oct	0.6	0.2	1	0.25						
2-Oct	0.6	0.2	1	0.25	1	1	0.25			
3-Oct	0.6	0.2	1	0.2						
4-Oct	0.65	0.2	1	0.25	1	1	0.25			
5-Oct	0.65	0.2	1	0.2	1	1	0.25			
6-Oct	0.7	0.2	1	0.2	1	1	0.25			
7-Oct		0.2		0.2						
8-Oct		0.2		0.2						
9-Oct		0.2		0.2						
10-Oct		0.2		0.2						
11-Oct			1	0.25						
12-Oct			1	0.25						
13-Oct			1	0.25						
14-Oct	0.4		1	0.25						
15-Oct	0.2		1	0.25						
16-Oct	0.2			0.25						
17-Oct										
18-Oct										
19-Oct										
20-Oct										
21-Oct	0.2									
22-Oct										
23-Oct										
24-Oct										
25-Oct										
26-Oct										
27-Oct										
28-Oct										
29-Oct										
30-Oct										
31-Oct										
Days On	171	44	81	59	87	51	148	64	155	175
% Total	100%	48%	58%	42%	55%	41%	100%	41%	100%	100%

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NorthTree Fire International
Facsimile Cover Sheet

To: Niel Allen
Company:
Phone:
Fax: (970) 224-1885

From: Marion R. Bryson, PhD
Company: NorthTree Fire International
Phone: (831) 582-3476
Fax: (831) 582-3407

Date: March 3, 2004

Pages including this cover page: 13

Comments:

Niel,

I have discovered additional data on pump use at El Sur Ranch. It is a complete history of daily pump use and salinity from April through October for the years 1989 through 2003. I believe that 1989 is as far back as the records go. Hope this helps.

Marion

ESR Salinity (1 = On, 0 = Off); Salt Factor shown is Highest of Two when applicable

Date	1989			1990			1991			1992			1993			1994	
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New
1-Apr																	
2-Apr																	
3-Apr																	
4-Apr																	
5-Apr																	
6-Apr																	
7-Apr																	
8-Apr																	
9-Apr																	
10-Apr																	
11-Apr																	
12-Apr																	
13-Apr																	
14-Apr																	
15-Apr																	
16-Apr																	
17-Apr																	
18-Apr																	
19-Apr																	
20-Apr																	
21-Apr																	
22-Apr																	
23-Apr																	
24-Apr																	
25-Apr																	
26-Apr																	
27-Apr																	
28-Apr																	
29-Apr																	
30-Apr																	
1-May			NA			1.75			NA	1	1	0.40			0.43		0
2-May			NA			1.10			NA	1	1	0.40			0.45		0
3-May			NA		1	0.98			NA	1	1	0.35			0.44		0
4-May			NA		1	0.65			NA	1	1	0.35			0.46		0
5-May			NA		1	0.80			NA	1	1	0.36			0.30		0
6-May			NA		1	0.70			NA	1	1	0.39			0.35		0
7-May			NA		1	0.45			NA	1	1	0.39			0.40		0
8-May			NA	1		0.52			NA	1	1	0.36	1		0.40		0
9-May			NA	1		0.40			NA	1	1	0.36			0.40		0
10-May			NA	1		0.60			NA	1	1	0.35			0.45		0
11-May			NA	1		0.90			NA	1		0.35			0.45		0
12-May			NA	1		0.90			NA	1		0.35			0.40		0
13-May			NA	1		0.83			NA	1		0.35			0.40		0
14-May			NA	1		0.73			NA	1		0.34			0.45		0
15-May			NA	1		0.87			NA	1		0.36	1	1	0.30		0
16-May			NA	1		0.90			NA	1		0.35	1	1	0.30		0
17-May			NA	1		0.88			NA	1		0.35	1	1	0.35		0
18-May			NA	1		0.87			NA	1	1	0.30	1	1	0.25		0
19-May	1	0.35		1		0.80			NA	1	1	0.30	1	1	0.25		0
20-May	1	0.35		1		0.60			NA	1		0.35	1	1	0.20		0
21-May	1	0.35		1		0.70	1	1	0.20	1		0.35	1	1	0.20		0
22-May	1	0.35		1		0.65	1	1	0.20	1		0.30	1	1	0.25	1	0
23-May	1	0.35		1		0.45	1	1	0.20	1	1	0.30	1	1	0.25	1	0
24-May	1	0.35		1		0.60	1	1	0.23	1	1	0.30			0.20	1	0
25-May		0.35			1	0.65	1	1	0.20	1	1	0.30	1	1	0.20	1	0
26-May	1	0.35				1.00	1	1	0.20		1	0.35	1	1	0.20		1
27-May	1	0.35				1.05	1	1	0.20			0.35	1	1	0.20		1
28-May	1	0.35		1		0.90	1		0.25	1		0.25	1	1	0.20		1

1989 thru 1993

ESR Salinity (1 = On, 0 = Off); Salt Factor shown is Highest of Two when applicable

Date	1989			1990			1991			1992			1993			1994		
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt
29-May		1	0.35			1.10	1		0.20	1		0.25	1	1	0.20			1.70
30-May		1	0.35		1	0.85	1		0.20	1		0.32	1	1	0.20			1.40
31-May		1	0.35	0		1.05	1		0.33	1		0.32	1	1	0.20		3	1.40
1-Jun		1	0.60		1	0.50	1		0.20	1		0.32	1	1	0.25			1.70
2-Jun	1	1	0.50		1	0.45	1		0.20	1		0.32	1	1	0.20			1.40
3-Jun	1		0.50		1	0.65	1		0.22	1	1	0.32	1	1	0.20			1.50
4-Jun			0.95		1	0.40	1		0.20	1	1	0.32	1	1	0.20		1	0.80
5-Jun	1		0.95		1	0.65	1	1	0.20		1	0.45	1	1	0.20		1	0.80
6-Jun	1		0.90		1	0.40	1	1	0.24	1	1	0.45	1	1	0.15		1	0.80
7-Jun			0.95		1	0.38	1	1	0.24	1	1	0.55	1		0.20		1	0.70
8-Jun	1		0.98		1	0.65	1	1	0.20	1	1	0.70			0.20		1	0.60
9-Jun			1.35		1	0.80		1	0.20	1	1	0.70			0.20		1	0.60
10-Jun			1.10		1	0.53		1	0.24	1	1	0.65			0.15		1	0.60
11-Jun			1.05		1	0.65	1	1	0.20	1	1	0.60			0.20		1	0.60
12-Jun	1		0.85			1.00	1	1	0.21	1	1	0.60			0.20		1	0.60
13-Jun	1		0.70		1	0.50	1		0.20		1	0.54	1	1	0.15		1	0.60
14-Jun			1.30		1	0.90	1		0.20			0.60			0.20		1	0.55
15-Jun			1.20		1	0.47	1		0.65	1	1	0.30			0.20		1	0.55
16-Jun			1.10		1	0.80	1		0.65	1	1	0.32			0.18		1	0.40
17-Jun	1		0.70		1	0.75			1.10	1	1	0.33			0.20		1	0.30
18-Jun			1.45		1	0.95			1.10	1	1	0.34			0.20		1	0.30
19-Jun			1.25		1	0.98			1.20	1	1	0.41			0.20		1	0.30
20-Jun	1		0.90		1	0.96			1.20	1	1	0.35			0.20		1	0.40
21-Jun	1		0.90		1	0.90	1		0.90	1	1	0.40			0.20		1	0.70
22-Jun			1.20		1	0.85	1		0.90			0.40	1		0.15		1	0.70
23-Jun			1.50		1	0.75	1		0.90	1	1	0.35	1		0.20			1.50
24-Jun			1.50		1	0.70			1.05	1	1	0.35	1		0.20			1.50
25-Jun			1.50		1	0.70	1		0.95	1	1	0.35	1		0.20			1.50
26-Jun			1.35		1	0.90	1		0.89	1	1	0.35	1	1	0.20			1.00
27-Jun	1		0.80		1	0.65	1		0.65	1		0.35	1	1	0.20			1.20
28-Jun			1.30		1	0.55	1	1	0.45	1		0.30		1	0.18		1	0.85
29-Jun			1.40		1	0.70	1	1	0.45	1		0.34	1		0.20			1.10
30-Jun			1.25	0		1.10	1	1	0.50	1		0.34	1	1	0.20		0	1.00
1-Jul			1.20			1.10	1	1	0.45	1	1	0.32	1	1	0.20			0.95
2-Jul			1.50			1.05	1	1	0.25		1	0.65	1	1	0.15		1	0.75
3-Jul			1.40		1	0.80	1	1	0.30			1.00	1	1	0.15		1	0.70
4-Jul			1.30		1	0.85	1	1	0.20			1.00	1		0.15		1	0.40
5-Jul			1.20			1.10	1	1	0.17			1.10	1	1	0.15		1	0.90
6-Jul			1.05		1	0.60	1	1	0.15			1.10	1	1	0.15			1.40
7-Jul			1.10		1	0.75	1	1	0.20			1.00	1	1	0.20		1	0.45
8-Jul			1.40			1.30	1	1	0.20	1		0.95	1	1	0.15		1	0.45
9-Jul			1.30			1.60	1	1	0.40	1		0.95	1	1	0.40		1	0.45
10-Jul			1.20		1	0.70	1		0.70	1		1.20		1	0.35		1	0.45
11-Jul	1		0.80			1.10	1		0.25	1		0.35		1	0.20		1	0.50
12-Jul			1.60		1	0.86	1		0.60	1	1	0.95		1	0.20		1	0.50
13-Jul	1		0.98			1.20			1.05	1	1	0.90	1	1	0.20		1	0.50
14-Jul			1.60			1.50	1		0.90	1	1	0.95	1	1	0.30		1	0.45
15-Jul	1		0.90		1	0.80			1.10	1	1	0.90	1	1	0.25		1	0.40
16-Jul			1.10			1.20			1.20		1	0.95	1	1	0.30		1	0.40
17-Jul			1.10			1.10	1		0.70		1	0.35	1	1	0.30		1	0.40
18-Jul	1		0.90			1.20	1		0.67		1	0.35	1	1	0.30		1	0.40
19-Jul			1.30			1.10	1		0.65		1	0.35		1	0.30		1	0.40
20-Jul			1.30		1	0.70	1		0.70		1	0.35			0.20		1	0.35
21-Jul			1.40			1.10	1		0.67		1	0.32			0.20		1	0.35
22-Jul			1.70			1.05	1		0.65		1	0.31			0.20		1	0.60
23-Jul			1.50		1	0.80	1		0.80		1	0.30			0.20		1	0.61
24-Jul			1.40		1	0.95			1.10		1	0.30			0.20		1	0.60
25-Jul	1		0.96		1	0.80	1		0.80		1	0.30			0.20		1	0.55

ESR Salinity (1 = On, 0 = Off); Salt Factor shown is Highest of Two when applicable

Date	1989			1990			1991			1992			1993			1994		
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt
26-Jul			1.40	1		0.85	1		0.85		1	0.30			0.25		1	0.40
27-Jul	1		0.97	1		0.70	1		0.70		1	0.30			0.35		1	0.35
28-Jul			2.00	1		0.60	1		0.60		1	0.30	1		0.35		1	0.35
29-Jul			2.00	1		0.90	1		0.90		1	0.60	1	1	0.35		1	0.35
30-Jul			1.90	1		0.70	1		0.70			0.90	1	1	0.30		1	0.30
31-Jul			1.70			1.10	1		0.60			1.00	1	1	0.30			0.30
1-Aug			1.30	1		0.70	1		0.70			1.00	1	1	0.30	1		0.80
2-Aug			1.70	1		0.93	1		0.74			1.00	1	1	0.35	1		0.75
3-Aug			2.00	1		0.90	1		0.45			1.00	1	1	0.35	1		0.70
4-Aug			1.60	1		0.94	1		0.25		1	0.75	1	1	0.35	1		0.60
5-Aug			1.50	1		0.94	1		0.25		1	0.75			0.30	1		0.55
6-Aug			1.40	1		0.90	1	1	0.25	1		0.75	1		0.35	1		0.45
7-Aug			1.45	1		0.90	1	1	0.30	1		0.75	1	1	0.60	1		0.40
8-Aug			1.50	1		0.75	1	1	0.50	1	1	0.50			0.25	1		0.25
9-Aug			1.40	1		0.50	1		0.80	1		0.60	1	1	0.25		1	0.25
10-Aug			1.60	1		0.70	1		0.80			1.50		1	0.25		1	0.25
11-Aug			1.70	1		0.70	1		0.80			1.30	1	1	0.25		1	0.25
12-Aug			1.30	1	1	0.45	1		0.90		1	0.60	1	1	0.25		1	0.55
13-Aug			1.15		1	0.70			1.20		1	0.50	1	1	0.25		1	0.40
14-Aug			1.10	1	1	0.65	1	1	0.65		1	0.50	1	1	0.20	1	1	0.45
15-Aug			1.05		1	0.65			1.15			0.40	1	1	0.25	1		0.45
16-Aug	1		0.96	1	1	0.65			1.20			0.40	1		0.25	1		0.35
17-Aug			1.40	1	1	0.65	1		0.95		1	0.40	1	1	0.20	1		0.35
18-Aug			1.40	1	1	0.65	1		0.90			0.40	1	1	0.30	1		0.40
19-Aug			1.40	1	1	0.60	1		0.60		1	0.40		1	0.30	1		0.40
20-Aug			1.40	1	1	0.65		1	0.65		1	0.40	1	1	0.25	1	1	0.50
21-Aug			1.25	1	1	0.60	1		0.60		1	0.40	1	1	0.25	1	1	0.40
22-Aug			1.10	1	1	0.75	1		0.75		1	0.55		1	0.25	1	1	0.48
23-Aug			1.30	1	1	0.65	1		0.65		1	0.35			0.25	1	1	0.40
24-Aug			1.40	1	1	0.55	1		0.55		1	0.35			0.25	1	1	0.45
25-Aug			1.70	1	1	0.60	1		0.33		1	0.35			0.20	1	1	0.45
26-Aug			1.70	1	1	0.60	1		0.30		1	0.35		1	0.25	1	1	0.45
27-Aug			1.50	1	1	0.55	1		0.23			0.35		1	0.25			0.25
28-Aug			1.30	1	1	0.56	1		0.34	1		0.90			0.20			0.30
29-Aug	1		0.80	1	1	0.55	1		0.32	1		0.90			0.25		1	0.20
30-Aug			1.30	1	1	0.54	1		0.40	1		0.85			0.25		1	0.30
31-Aug			1.30	1	1	0.50	1		0.25	1		0.80	1		0.20	1	1	0.30
1-Sep			1.20	1	1	0.45	1		0.21	1		0.80	1		0.25	1	1	0.25
2-Sep			1.10	1		0.45	1		0.23	1	1	0.80	1		0.25	1		0.25
3-Sep			1.20	1		0.40	1		0.21	1	1	0.80	1		0.25	1		0.25
4-Sep			1.10	1		0.35	1		0.25	1	1	0.80			0.25	1		0.25
5-Sep			1.05	1		0.35	1		0.30	1	1	0.80	1	1	0.25			0.25
6-Sep	1		0.98	1		0.35	1		0.35	1	1	0.60			0.25	1	1	0.25
7-Sep			1.05	1		0.35	1		0.34	1	1	0.60			0.25	1	1	0.30
8-Sep	1		0.90	1		0.35	1		0.40	1	1	0.65	1	1	0.25	1	1	0.10
9-Sep	1		0.80	1		0.35	1		0.25	1	1	0.60	1	1	0.30	1	1	0.20
10-Sep	1		0.70	1		0.35	1		0.25	1		0.60	1	1	0.30	1	1	0.40
11-Sep	1		0.65	1		0.35	1		0.35	1	1	0.60	1		0.30	1	1	0.30
12-Sep	1		0.60	1		0.35	1		0.35	1	1	0.55			0.30	1		0.40
13-Sep	1		0.55	1		0.35	1		0.90	1	1	0.50			0.30	1		0.30
14-Sep	1		0.55	1		0.35	1		0.50	1		0.50	1	1	0.30	1		0.30
15-Sep	1		0.52	1		0.35	1		0.60	1		0.50	1		0.25	1		0.30
16-Sep	1		0.52	1		0.35	1		0.65			0.50			0.25	1		0.30
17-Sep	1		0.50	1		0.35	1		0.70		1	0.50			0.25	1		0.30
18-Sep	1		0.50	1		0.33	1		0.60		1	0.30			0.25	1		0.30
19-Sep	1		0.45	1		0.33	1		0.50		1	0.30			0.25	1		0.30
20-Sep	1		0.45	1		0.35	1		0.35			0.30			0.30	1		0.30
21-Sep	1		0.45	1		0.30	1		0.30			0.30			0.25	1		0.35

1994 thru 2003

ESR Salinity (1 = On; 0 = Off); Salt Factor shown is Highest of Two when applicable

Date	1989			1990			1991			1992			1993			1994		
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt
22-Sep	1		0.40	1		0.35	1		0.35			0.30			0.25	1		0.30
23-Sep	1		0.40	1		0.32	1		0.32	1	1	0.35			0.25	1		0.30
24-Sep	1		0.45	1		0.32	1		0.32	1	1	0.30			0.30	1		0.30
25-Sep	1		0.45	1		0.30	1		0.30	1	1	0.30			0.30	1		0.30
26-Sep	1		0.40	1		0.30	1		0.25	1		0.35			0.25	1		0.40
27-Sep	1		0.40	1		0.30	1		0.30	1		0.30	1	1	0.25	1		0.30
28-Sep	1		0.40	1	1	0.35	1		0.35	1		0.30	1	1	0.25	1		0.30
29-Sep	1		0.40	1	1	0.35	1		0.40	1		0.50	1	1	0.25	1		0.30
30-Sep	1		0.40	1	1	0.35	1		0.35	1		0.50	1	1	0.25	1		0.30
1-Oct	1		0.40	1	1	0.30	1		0.30	1		0.60	1	1	0.25	1		0.30
2-Oct	1		0.40	1	1	0.35	1		0.50	1		0.70	1	1	0.30	1		0.30
3-Oct	1		0.40	1	1	0.35	1		0.35	1		0.90	1	1	0.25	1		0.35
4-Oct	1		0.40	1		0.30	1		0.30	1		0.90			0.30	1		0.30
5-Oct	1		0.40	1		0.35	1		0.35	1		0.95		1	0.25			NA
6-Oct	1		0.40		1	0.35	1		0.30	1		0.90			0.25			NA
7-Oct	1	1	0.40		1	0.20	1		0.20	1		0.90			0.25			NA
8-Oct		1	0.30		1	0.20	1		0.32			0.90			0.25			NA
9-Oct		1	0.30		1	0.25	1		0.20			1.10			0.30			NA
10-Oct		1	0.28		1	0.20	1		0.25			1.10			0.25			NA
11-Oct		1	0.28		1	0.20	1	1	0.20			1.10			0.25			NA
12-Oct		1	0.25		1	0.25	1	1	0.25			1.10			0.30			NA
13-Oct		1	0.28			0.20	1	1	0.20	1	1	0.95			0.25			NA
14-Oct		1	0.28	1		0.20	1	1	0.17	1	1	0.95			0.25			NA
15-Oct		1	0.28	1		0.20	1	1	0.17		1	0.20			0.35			NA
16-Oct		1	0.28	1		0.20	1	1	0.25		1	0.20			0.25			NA
17-Oct		1	0.28	1		0.25	1	1	0.22		1	0.35			0.25			NA
18-Oct		1	0.28	1		0.25	1	1	0.23		1	0.30			0.35			NA
19-Oct		1	0.25	1		0.20	1	1	0.10		1	0.70			0.25			NA
20-Oct		1	0.28	1		0.25		1	0.23	1	1	0.50			0.25			NA
21-Oct		1	0.28	1		0.20		1	0.27			0.30			0.30			NA
22-Oct		1	0.28	1		0.25		1	0.10			0.30			0.25			NA
23-Oct		1	0.26	1		0.25		1	0.25			0.32			0.25			NA
24-Oct		1	0.30	1		0.25		1	0.23			0.30			0.30			NA
25-Oct		1	0.28	1		0.25		1	0.28			0.33			0.25			NA
26-Oct		1	0.25	1		0.25		1	0.26			0.30			0.25			NA
27-Oct		1	0.24	1		0.20		1	0.25			0.30			0.30			NA
28-Oct		1	0.20	1		0.25		1	0.25			0.30			0.25			NA
29-Oct		1	0.25	1		0.25		1	0.28			0.40			0.25			NA
30-Oct		1	0.24	1		0.20		1	0.28			0.30			0.30			NA
31-Oct		1	0.28	1		0.25		1	0.34			0.33			0.25			NA
Days On	50	39	89	116	70	186	137	59	190	105	98	203	87	81	168	76	76	135
% Total	56%	44%	100%	62%	38%	100%	72%	28%	100%	52%	48%	100%	52%	48%	100%	44%	56%	100%

ESR Salinity																	
Date	1995			1996			1997			1998			1999			2000	
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New
1-Apr								1	0.25								
2-Apr							.1	1	0.25								
3-Apr							.1	1	0.25								
4-Apr							.1	1	0.23								
5-Apr							.1	1	0.23								
6-Apr							.1	1	0.20								
7-Apr							.1	1	0.20								
8-Apr							.1	1									
9-Apr							.1	1	0.20								
10-Apr							.1	1	0.20								
11-Apr							.1		0.20								
12-Apr							.1		0.20								
13-Apr							.1		0.20								
14-Apr							.1		0.20								
15-Apr							.1		0.20								
16-Apr								1	0.20								
17-Apr																	
18-Apr																	
19-Apr																	
20-Apr																	
21-Apr																	
22-Apr																	
23-Apr																	
24-Apr								1	0.20								
25-Apr							.1	1	0.20								
26-Apr							.1	1									
27-Apr							.1	1	0.20								
28-Apr							.1	1									
29-Apr							.1	1	0.20								
30-Apr							.1	1	0.20								
1-May			NA		1	0.30	.1		0.20								
2-May			NA	1	1	0.30	.1		0.20								
3-May			NA	1	1	0.30	.1		0.20								
4-May			NA	1	1	0.20	.1		0.20				1	0.20			
5-May			NA	1	1	0.20			0.20								
6-May			NA			0.20	.1	1	0.20								
7-May			NA	1	1	0.20	.1	1	0.20								
8-May			NA	1	1	0.20	.1	1									
9-May			NA	1	1	0.20	.1	1									
10-May			NA	1	1	0.20	.1	1	0.20								
11-May			NA			0.20	.1	1	0.20								
12-May			NA			0.20	.1	1	0.20								
13-May			NA	1		0.20	.1										
14-May			NA	1		0.20			0.20								
15-May			NA			0.20											
16-May			NA			0.20											
17-May			NA			0.20	.1		0.20								
18-May			NA			0.20	.1		0.20				1		0.20		
19-May			NA			0.20	.1		0.20				1		0.20		
20-May			NA			0.20	.1						1		0.20		
21-May			NA			0.20	.1	1	0.20				1		0.20		1
22-May			NA			0.20							1		0.20		1
23-May			NA			0.20										1	1
24-May			NA			0.20							1	1	0.20	1	1
25-May			NA			0.20							1	1	0.20	1	1
26-May			NA			0.20							1	1	0.20	1	1
27-May			NA			0.20							1	1	0.20	1	1
28-May			NA	1	1	0.20							1	1	0.20	1	1

ESR Salini	1995			1996			1997			1998			1999			2000			
	Date	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	
29-May				NA	1	1	0.20		1	1	0.20								
30-May				NA	1	1	0.20			1	0.20				1	0.20		1	
31-May				NA	1		0.20				0.20				1	0.18		1	
1-Jun		1	1	0.20			0.20							1	1	0.20		1	
2-Jun		1	1	0.20			0.20							1	1	0.20		1	
3-Jun		1	1	0.20			0.20							1	1	0.20		1	
4-Jun		1	1	0.20			0.20							1		0.20		1	
5-Jun		1	1	0.20			0.20		1		0.20							1	1
6-Jun		1	1	0.15			0.20		1									1	1
7-Jun		1	1	0.15	1	1	0.20		1		0.20							1	1
8-Jun		1	1	0.20	1	1	0.20				0.20				1	0.20		1	1
9-Jun		1	1	0.20	1	1	0.20		1		0.20				1	0.20		1	1
10-Jun		1	1	0.20	1	1	0.20				0.20				1	0.20		1	1
11-Jun		1	1	0.20	1	1	0.20								1	0.20		1	1
12-Jun		1	1	0.15	1		0.20									0.20		1	1
13-Jun		1	1	0.20	1		0.20									0.20		1	1
14-Jun		1	1	0.20	1	1	0.20		1	1	0.20				1	0.18		1	1
15-Jun			1	0.20	1	1	0.20		1	1	0.20				1	0.18		1	1
16-Jun				0.20	1	1	0.20			1	0.20							1	
17-Jun				0.20	1	1	0.20		1	1	0.20			0.20					
18-Jun				0.20	1	1	0.20		1	1	0.20			0.20					
19-Jun		1	1	0.20			0.20		1		0.20								
20-Jun		1	1	0.20			0.20		1	1	0.20			0.20					
21-Jun		1	1	0.20			0.20		1		0.20								
22-Jun			1	0.20			0.20		1		0.20			0.20		0.20		1	1
23-Jun			1	0.20			0.20		1		0.20			0.20		0.20		1	1
24-Jun			1	0.18			0.20		1		0.40			0.20		0.20		1	1
25-Jun			1	0.18			0.20		1		0.25			0.20		0.20		1	1
26-Jun			1	0.18			0.20		1		0.45			0.20		0.20		1	1
27-Jun		1		0.20	1		0.20		1		0.50			0.20		0.20		1	1
28-Jun		1		0.30	1		0.20			1	0.25			0.20		0.20		1	1
29-Jun		1		0.30	1		0.20			1	0.25			0.20		0.20		1	1
30-Jun		1	1	0.30	1		0.20		1									1	
1-Jul		1	1	0.35	1		0.20		1	1	0.20							1	
2-Jul		1	1	0.35	1		0.20		1		0.50							1	
3-Jul		1	1	0.30	1	1	0.20		1						1	0.20			
4-Jul		1		0.30		1	0.20		1		0.50				1	0.20			
5-Jul		1		0.25		1	0.20				0.65			0.20		0.20			
6-Jul		1		0.25		1	0.20							0.20		0.20			
7-Jul		1	1	0.20		1	0.20							0.20		0.20			
8-Jul		1	1	0.20		1	0.20							0.20		0.20			
9-Jul			1	0.20		1	0.20							0.20		0.20			
10-Jul		1	1	0.20		1	0.20							0.20		0.20			
11-Jul		11	1	0.20		1	0.20							0.20		0.20			
12-Jul			1	0.20	1		0.20							0.20		0.20			
13-Jul			1	0.55	1		0.20												
14-Jul		1	1	0.60			0.20							1	0.20				
15-Jul		1	1	0.90			0.20							1	0.20			1	1
16-Jul		1		0.95	1	1	0.20							1	0.20			1	1
17-Jul		1	1	0.75	1	1	0.20			1	0.20							1	1
18-Jul		1	1	0.55	1	1	0.20			1	0.30			1	0.20		1	0.20	1
19-Jul		1		0.70	1	1	0.20			1	0.25			1	0.20		1	0.20	1
20-Jul				0.70	1	1	0.20			1	0.20			1	0.20		1	0.20	1
21-Jul				0.70	1	1	0.20			1	0.20			1	0.20		1	0.20	1
22-Jul				0.50	1	1	0.20			1	0.20			1	0.20		1	0.20	1
23-Jul				0.50	1	1	0.25			1				1	0.20		1	0.20	1
24-Jul		1		0.50	1	1	0.25			1	0.45			1	0.20		1	0.20	1
25-Jul		1		0.70	1	1	0.25			1	0.65			1	0.20		1	0.20	1

ESR Salt																	
1995			1996			1997			1998			1999			2000		
Date	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New
26-Jul	1		0.70			0.25			0.25	1		0.20	1	1	0.10	1	1
27-Jul	1		0.70			0.20				1		0.20	1	1	0.20	1	1
28-Jul	1		0.70			0.20	1		0.40	1		0.20	1	1	0.20		1
29-Jul	1	1	0.70			0.20	1	1	0.65				1		0.20		
30-Jul	1	1	0.70			0.20			0.80								
31-Jul	1	1	0.70	1		0.20		1									1
1-Aug	1	1	0.70	1		0.20											1
2-Aug	1	1	0.45			0.20											1
3-Aug			0.45			0.20							1		0.25		
4-Aug	1		0.45	1		0.20	1		0.40	1		0.25	1		0.25	1	
5-Aug	1		0.45	1		0.20	1		0.50	1		0.25	1		0.25	1	
6-Aug	1		0.45	1		0.20	1		0.60		1		1		0.25	1	
7-Aug	1		0.45	1		0.20	1		0.70		1		1			1	
8-Aug	1		0.40	1	1	0.25	1		0.90							1	
9-Aug			0.40	1	1	0.25	1		0.80					1	0.18	1	
10-Aug			0.35	1	1	0.25	1		0.80					1	0.20	1	
11-Aug			0.35	1	1	0.25	1		0.75		1	0.20	1	1	0.20	1	
12-Aug			0.35	1	1	0.25	1	1	0.75				1	1	0.25	1	
13-Aug			0.35	1	1	0.20		1	0.25				1		0.25	1	
14-Aug	1	1	0.25	1	1	0.20		1	0.25	1	1	0.20	1		0.25	1	
15-Aug	1	1	0.20	1	1	0.25		1	0.25	1	1	0.20	1		0.25		
16-Aug	1		0.20	1		0.25			0.20	1	1	0.20	1		0.25		
17-Aug		1	0.20	1		0.25				1	1	0.20	1		0.25	1	1
18-Aug		1	0.20			0.20		1	0.20	1	1	0.20	1		0.25	1	1
19-Aug		1	0.20	1		0.20		1	0.20	1	1	0.20	1		0.25		
20-Aug			0.20	1		0.25		1	0.20	1		0.20	1		0.25		
21-Aug	1	1	0.30	1	1	0.25			0.20	1		0.20	1		0.25		
22-Aug	1	1	0.90	1	1	0.25							1		0.25		
23-Aug	1	1	0.75	1	1	0.20							1				
24-Aug	1		0.65	1	1	0.20					1	0.20	1		0.25	1	
25-Aug	1		0.65		1	0.20							1		0.25	1	
26-Aug	1		0.65		1	0.20		1	0.35		1	0.20	1	1	0.25	1	
27-Aug			0.70	1	1	0.20	1		0.55		1	0.20	1	1		1	
28-Aug	1		0.85	1	1	0.30	1		0.55		1	0.20				1	
29-Aug	1	1	0.85	1	1	0.30	1		0.70							1	
30-Aug	1	1	0.85	1	1	0.30	1		0.90							1	
31-Aug		1	0.92	1	1	0.30					1	0.20				1	
1-Sep		1	0.25	1		0.95				1	1	0.20	1	1	0.25	1	1
2-Sep	1	1	0.80			0.95		1	0.35	1	1	0.20		1	0.25	1	1
3-Sep	1	1	0.75			0.95		1	0.20					1	0.20	1	1
4-Sep	1	1	0.68			0.95		1	0.20	1	1	0.20		1			1
5-Sep		1	0.50			0.95		1	0.20			0.25		1	0.20		1
6-Sep	1	1	0.50			0.95		1	0.20					1	0.20		1
7-Sep	1	1	0.70			0.95		1	0.20						0.20	1	1
8-Sep	1		0.70			0.95		1			1	0.25				1	
9-Sep	1		0.85			0.95	1	1	0.80		1	0.25				1	
10-Sep	1		0.92	1		0.70	1		0.65		1	0.25				1	
11-Sep			1.10	1		0.70	1	1	0.20		1	0.25				1	
12-Sep			1.45	1		0.60	1		0.50			0.25				1	1
13-Sep			1.50	1		0.65	1		0.50							1	1
14-Sep			1.80	1		0.60										1	1
15-Sep			1.35	1		0.50										1	
16-Sep			1.35	1		0.50							1		0.25	1	
17-Sep			0.80	1		0.45							1	1	0.25	1	
18-Sep		1	0.80	1		0.45	1		0.40				1	1	0.25	1	1
19-Sep		1	0.70	1	1	0.45	1		0.45				1	1			1
20-Sep	1	1	0.80	1	1	0.45	1		0.50				1	1	0.25	1	1
21-Sep	1	1	0.80	1	1	0.45	1		0.50				1	1	0.25		

ESR Salinit	1995			1996			1997			1998			1999			2000	
	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New	Salt	Old	New
22-Sep	1	1	0.80	1	1	0.45	1		0.60				1	1	0.25		
23-Sep	1		0.80		1	0.35	1		0.70	1	1	Wall	1	1	0.25		
24-Sep	1		0.80	1	1	0.20	1		0.80	1	1	Test					
25-Sep	1		0.80	1	1	0.30	1		0.90						0.25		
26-Sep	1		0.80	1		0.30	1		0.70								
27-Sep			0.90			0.30	1		0.60				1		0.25		
28-Sep			0.80			0.30					1	0.25	1		0.25		
29-Sep			0.80			0.30	1	1	0.20		1	0.20	1		0.25		
30-Sep			0.80			0.30		1	0.25		1	0.20	1		0.25		
1-Oct			0.80			0.30	1	1	0.60				1		0.25		
2-Oct	1	1	0.80			0.30	1	1	0.60	1	1	0.20			0.25	1	1
3-Oct	1	1	0.90	1	1	0.30	1	1	0.55	1		0.20				1	1
4-Oct			1.10	1	1	0.30	1	1	0.55			0.20		1	0.20	1	1
5-Oct			1.10	1	1	0.40	1		0.55	1		0.20		1	0.20	1	
6-Oct			1.10	1	1	0.40			0.70	1	1	0.20		1		1	
7-Oct			1.10	1	1	0.25					1	0.20			0.20		
8-Oct			1.10		1	0.25				1	1	0.20					
9-Oct			1.10		1	0.25					1	0.20					
10-Oct			1.10			0.25						0.20					
11-Oct			1.10			0.25							1	1	0.25		
12-Oct			1.10			0.25							1	1	0.25		
13-Oct		1	0.35			0.25							1	1	0.25		
14-Oct		1	0.35	1		0.25	1	1	0.40				1		0.25		
15-Oct			0.35	1		0.25		1	0.20						0.25		
16-Oct			NA			0.25		1	0.20								
17-Oct			NA	1		0.25											
18-Oct			NA	1		0.25											
19-Oct			NA	1		0.25											
20-Oct			NA	1		0.25			0.20								
21-Oct			NA	1		0.25											
22-Oct			NA	1		0.25											
23-Oct			NA	1		0.25											
24-Oct			NA	1		0.25											
25-Oct			NA			NA											
26-Oct			NA			NA											
27-Oct			NA			NA											
28-Oct			NA			NA											
29-Oct			NA			NA											
30-Oct			NA			NA											
31-Oct			NA			NA											
Days On	91	70	161	104	74	178	97	74	171	41	44	85	81	59	140	87	61
% Total	57%	43%	100%	58%	42%	100%	57%	43%	100%	48%	52%	100%	58%	42%	100%	58%	41%

ESR Salini											
Date	Salt	2001			2002			2003			
		Old	New	Salt	Old	New	Salt	Old	New	Salt	
1-Apr											
2-Apr											
3-Apr											
4-Apr											
5-Apr											
6-Apr											
7-Apr											
8-Apr											
9-Apr											
10-Apr											
11-Apr											
12-Apr											
13-Apr											
14-Apr											
15-Apr											
16-Apr											
17-Apr											
18-Apr											
19-Apr											
20-Apr											
21-Apr											
22-Apr											
23-Apr											
24-Apr											
25-Apr						1	0.40				
26-Apr						1	0.35				
27-Apr							0.34				
28-Apr											
29-Apr						1	0.34				
30-Apr						1	0.26				
1-May											
2-May											
3-May						1	0.33				
4-May						1	0.32				
5-May						1	0.33				
6-May						1	1	0.27			
7-May						1	1	0.34			
8-May						1	1	0.33			
9-May						1	1	0.33			
10-May						1	1	0.33			
11-May						1	1	0.30			
12-May						1	1	0.25			
13-May						1	1	0.30	1	0.38	
14-May			1	0.22		1	1	0.33			
15-May			1			1	1	0.32			
16-May			1	0.22		1	1	0.33			
17-May			1	0.22		1	1	0.32			
18-May			1	0.22		1	1	0.32			
19-May				0.20							
20-May	0.25	1		0.20							
21-May		1									
22-May	0.25	1		0.20							
23-May	0.20	1	1	0.20	1	1	0.33				
24-May	0.20	1	1	0.20	1	1	0.28				
25-May	0.25	1	1	0.20	1	1	0.32				
26-May	0.25	1	1	0.20	1	1	0.33				
27-May	0.25	1	1	0.20	1	1	0.51				
28-May	0.25	1	1	0.20	1	1	0.85				

ESR Salinir											
Date	Salt	2001			2002			2003			
		Old	New	Salt	Old	New	Salt	Old	New	Salt	
29-May	0.25	1	1	0.20		1	1.01				
30-May	0.25	1	1	0.20		1	0.29				
31-May	0.25	1	1			1	0.31				
1-Jun	0.25		1	0.18		1	0.31				
2-Jun	0.21	1	1	0.20		1	0.20				
3-Jun	0.22	1	1	0.30	1	1	0.40				
4-Jun		1		0.40	1	1	0.71				
5-Jun	0.22	1		0.40	1	1	0.71	1	1	0.32	
6-Jun	0.22	1		0.50	1	1	0.80	1	1	0.32	
7-Jun	0.24	1		0.60	1	1	0.83	1	1	0.32	
8-Jun	0.24	1		0.70	1	1	0.68	1	1		
9-Jun	0.24	1		0.63	1	1	0.47	1	1	0.29	
10-Jun	0.24	1			1	1	0.51	1	1	0.29	
11-Jun	0.24	1		0.56	1	1	0.60	1	1	0.29	
12-Jun	0.24			0.55	1	1	0.87	1	1	0.30	
13-Jun	0.24					1	1.20	1	1	0.35	
14-Jun	0.24							1	1	0.45	
15-Jun								1		0.48	
16-Jun	0.22							1		0.40	
17-Jun	0.25		1	0.30				1		0.45	
18-Jun								1		0.48	
19-Jun								1		0.40	
20-Jun					1		0.30	1		0.39	
21-Jun		1	1	0.30	1		0.46	1		0.37	
22-Jun	0.25	1	1	0.30	1			1		0.36	
23-Jun	0.25	1	1	0.30	1		0.30	1		0.36	
24-Jun	0.25	1	1	0.30	1		0.38	1		0.36	
25-Jun	0.25	1	1	1.90	1		0.30	1		0.36	
26-Jun	0.25	1	1	1.90	1		0.48	1	1	0.36	
27-Jun	0.25		1	0.45	1		0.51	1	1	0.36	
28-Jun	0.25		1	0.29	1		0.46	1	1	0.36	
29-Jun	0.25		1	0.30	1		0.72	1	1	0.33	
30-Jun	0.25	1		0.40	1		0.64	1	1	0.30	
1-Jul	0.25				1		0.74	1	1	0.45	
2-Jul	0.25				1			1	1	0.47	
3-Jul	0.25	1		1.80	1			1	1	0.47	
4-Jul		1		1.30	1		0.32	1	1	0.35	
5-Jul		1		0.90	1			1	1	0.37	
6-Jul		1		0.80	1		0.46	1		0.38	
7-Jul		1		0.75	1		0.41	1		0.35	
8-Jul		1		0.60	1	1	0.50	1		0.37	
9-Jul		1	1	0.40	1	1	0.90	1		0.31	
10-Jul		1	1	0.40		1	1.60	1		0.30	
11-Jul		1	1			1	0.35	1	1	0.29	
12-Jul		1	1			1	0.34	1	1	0.29	
13-Jul		1	1	0.40		1	0.35	1	1	0.95	
14-Jul	0.25	1	1	0.40		1	0.35		1	1.70	
15-Jul	0.25	1	1	0.40		1	0.35		1	1.70	
16-Jul	0.25	1	1			1	0.33		1		
17-Jul	0.25		1	0.40		1	0.35		1	0.28	
18-Jul	0.25		1	0.20		1	0.35		1	0.30	
19-Jul	0.25	1	1			1	0.35		1	0.30	
20-Jul	0.25	1	1			1	0.35		1	0.30	
21-Jul		1	1	0.39		1	0.35			0.30	
22-Jul	0.30	1	1	0.40		1	0.35			0.29	
23-Jul	0.30	1		0.40		1	0.36	1	1	0.86	
24-Jul	0.30					1	0.33	1	1	1.10	
25-Jul	0.30					1	0.32		1	0.30	

ESR Salini										
Date	Salt	2001			2002			2003		
		Old	New	Salt	Old	New	Salt	Old	New	Salt
26-Jul	0.25					1	0.32		1	0.30
27-Jul						1	0.31		1	0.30
28-Jul	0.21					1	0.33		1	0.30
29-Jul	0.21					1	0.33		1	0.30
30-Jul		1				1	0.34		1	0.26
31-Jul	0.22	1		0.70		1	0.34		1	0.28
1-Aug	0.22	1		0.60		1			1	0.29
2-Aug	0.21	1		0.60		1	0.32	1	1	0.40
3-Aug	0.21	1		0.60		1	0.34	1	1	0.60
4-Aug	0.25	1		0.40		1	0.33	1	1	0.60
5-Aug	0.25	1				1	0.33	1	1	0.89
6-Aug	0.25	1				1	0.75	1	1	0.95
7-Aug	0.32		1			1	1.50		1	0.28
8-Aug	0.30		1	0.30		1	0.34		1	0.28
9-Aug	0.50		1	0.20		1	0.33		1	0.30
10-Aug	0.40		1	0.20		1	0.30		1	0.30
11-Aug	0.35					1	0.30		1	0.30
12-Aug	0.30					1	0.30		1	0.30
13-Aug						1	0.32		1	0.28
14-Aug	0.30	1	1	0.30		1	0.32		1	0.26
15-Aug	0.35	1	1	0.40		1	0.32	1	1	0.78
16-Aug		1		0.40		1	0.33		1	1.20
17-Aug	0.35	1	1	0.40		1	0.40		1	0.28
18-Aug	0.35	1	1	0.30		1	0.40		1	0.28
19-Aug	0.36	1	1	0.30		1	0.38		1	0.28
20-Aug			1	0.30		1	0.36		1	0.30
21-Aug		1	1	0.30		1	0.38		1	0.28
22-Aug		1				1	0.43		1	0.28
23-Aug		1	1	0.30		1	0.39		1	0.30
24-Aug	0.30	1	1	0.35		1	0.38		1	0.30
25-Aug	0.25	1		0.30		1	0.38		1	0.30
26-Aug	0.25					1	0.40			0.30
27-Aug		1	1	0.30		1	0.40			
28-Aug	0.25	1		0.30		1	0.40			
29-Aug	0.25	1	1	0.30						
30-Aug		1		0.30		1	0.40			
31-Aug	0.25	1		0.30		1	0.40			
1-Sep	0.25					1	0.40			
2-Sep	0.25	1		0.30		1	0.42	1		0.40
3-Sep	0.35					1	0.43	1		0.66
4-Sep	0.35	1		0.30		1	0.43	1		0.75
5-Sep		1		0.30		1	0.42	1		0.75
6-Sep	0.30			0.30		1	0.42	1		0.85
7-Sep	0.33					1	0.42			
8-Sep	0.33	1		0.35		1	0.43			1.10
9-Sep	0.33			0.35		1	0.43			
10-Sep	0.33	1		0.35		1	0.40			
11-Sep	0.33	1		0.36		1	0.40	1		0.40
12-Sep	0.30	1		0.33		1	0.40	1		0.65
13-Sep	0.30	1		0.33		1	0.42	1		0.75
14-Sep	0.30	1	1	0.33		1	0.42	1		0.78
15-Sep	0.25	1	1	0.33		1	0.41	1		0.78
16-Sep	0.25	1	1			1	0.42	1		0.78
17-Sep		1	1	0.30		1	0.44	1	1	0.74
18-Sep	0.25	1	1	0.30		1	0.44	1	1	0.82
19-Sep	0.20	1		0.30		1	0.40	1	1	0.84
20-Sep	0.22	1		0.30		1	0.40	1	1	0.95
21-Sep	0.20			0.30		1	0.38	1	1	0.79

ESR Salini										
Date	Salt	2001			2002			2003		
		Old	New	Salt	Old	New	Salt	Old	New	Salt
22-Sep						1	0.38	1	1	0.80
23-Sep						1	0.45	1	1	0.82
24-Sep		1	1	0.30		1	0.32	1	1	0.91
25-Sep		1	1	0.30		1	0.40		1	1.20
26-Sep		1	1			1	1.40		1	0.31
27-Sep		1		0.30		1	0.44		1	0.30
28-Sep						1	0.42			
29-Sep						1	0.42		1	
30-Sep						1	0.42		1	0.28
1-Oct						1	0.42		1	0.28
2-Oct	0.25					1	0.42		1	0.28
3-Oct	0.25					1	0.42		1	0.28
4-Oct	0.25					1	0.41		1	0.28
5-Oct	0.25					1	0.37		1	0.28
6-Oct	0.21					1	0.37		1	0.28
7-Oct	0.25					1	0.40			0.30
8-Oct						1	0.37			
9-Oct						1	0.35			
10-Oct						1	0.31			
11-Oct						1	0.31			
12-Oct						1	0.44			
13-Oct						1	0.38	1		0.50
14-Oct						1	0.44	1		0.85
15-Oct						1	0.43	1		0.89
16-Oct						1	0.38	1		0.75
17-Oct						1		1		0.72
18-Oct								1		0.65
19-Oct								1		0.45
20-Oct								1		0.49
21-Oct						1	0.31	1		0.50
22-Oct						1	0.31	1		0.50
23-Oct						1	0.32	1		0.42
24-Oct						1	0.32	1		0.45
25-Oct						1	1	0.40	1	0.49
26-Oct						1	1	0.90	1	0.50
27-Oct						1	1	0.86	1	0.65
28-Oct						1	1.10	1		0.65
29-Oct								1		0.65
30-Oct								1		0.70
31-Oct										0.65
Days On	148	91	61	155	59	144	203	85	83	168
% Total	100%	59%	41%	100%	29%	71%	100%	51%	49%	100%

2004 log

8896.2

-301

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				Old Well		Total kw hr	Weather
		Temp (°C)	s-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)	In use?	Time on		
10-1-04	3:15P	15.79	416	340	560	Yes		74309	Fog bank cool windy
10-2-04	8:35A	15.81	420	346	564	Yes		75506	warm and sunny
10-3-04	8:55A	15.83	402	337	550	Yes		76607	cloudy No sun
10-4-04	1:41A	16.18	387	322	575	Yes		77728	clear windy
10-5-04	8:32A	15.62	387	310	571	Yes		78762	sunny no wind
10-6-04	9:28A	15.85	370	305	585	Yes		79892	Sunny windy
10-7-04	8:15A	15.88	361	298	543	Yes		80909	clear sunny windy
10-8-04	8:29A	15.94	362	299	530	Yes		81998	Sunny few clouds no wind
10-9-04	8:36A	15.80	357	294	547	Yes		83083	sunny very windy
10-11-04	8:49A	15.74	365	300	539	Yes		86742	Sunny No wind
10-12-04	8:53A	16.39	370	309	522	Yes		88561	Sunny breezy warm
10-13-04	1:15P	16.66	408	344	527	Yes		89270	Sunny No wind warm
10-14-04	9:05A	15.46	374	306	590	Yes		90788	Fog bank no wind cool
10-15-04	4:31P	15.69	385	317	548	Yes		93138	Partly foggy breezy
10-16-04	8:16A							94327	cloudy No sun

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters					In use?	New Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)			Time on	Time off		
10-1-04	3:50	15.79	416	340	560	yes			74309	fog bank cool wind	
10-2-04	8:35A	15.81	420	346	564	yes			75506	warm and sunny	
10-3-04	8:55A	15.83	402	331	585	yes			76607	cloudy no sun	
10-4-04	8:41A	16.13	387	322	575	yes			77728	clear windy	
10-5-04	8:33A	15.62	387	310	571	yes			78762	sunny no wind	

Notes:
 Temp = Temperature in degrees centigrade
 S-Cond = Specific Conductance in micro-siemens per centimeter
 Cond = Conductivity in micro-siemens per centimeter
 DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters				In use?	New Well		Total kw hr	Weather
		Temp (°C)	s-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)		Time on	Time off		
10-9-04	8:44 A	1390	305	240	591	Yes	8:35A	83083	Sunny very windy	
10-11-04	9:09A	1423	312	248	745	Yes		86742	Sunny no wind	
10-12-04	9:05 A	1508	311	252	848	Yes		88561	Sunny breezy warm	
10-13-04	1:21P	1501	307	248	558	Yes		89270	Sunny No wind warm	
10-14-04	9:16A	1413	310	246	663	Yes		90788	Fog bank No wind cool	
10-15-04	4:36P	1430	310	247	522	Yes		93138	Partly foggy breezy	
10-16-04	8:16A						8:24	94327	Cloudy No Sun	

Notes:
 Temp = Temperature in degrees centigrade
 S-Cond = Specific Conductance in micro-siemens per centimeter
 Cond = Conductivity in micro-siemens per centimeter
 DO = Dissolved Oxygen in milligrams per liter

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				In use?	Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)		Time on	Time off		
10-1-04	3:15P	15.79	416	340	5.60	Yes		74309	Fog bank cool windy	
10-2-04	8:35A	15.81	420	346	5.64	Yes		75506	warm and sunny	
10-3-04	8:55A	15.83	402	337	5.50	Yes		76607	cloudy No sun	
10-4-04	1:41A	16.18	387	322	5.75	Yes		77728	clear windy	
10-5-04	8:32A	15.62	387	310	5.71	Yes		78762	sunny no wind	
10-6-04	9:28A	15.85	370	303	5.85	Yes		79892	sunny windy	
10-7-04	8:15A	15.88	361	298	5.43	Yes		80909	clear sunny windy	
10-8-04	8:29A	15.94	362	299	5.30	Yes		81998	sunny few clouds no wind	
10-9-04	8:36A	15.80	357	294	5.47	Yes		83083	sunny very windy	
10-11-04	8:49A	15.74	365	300	5.39	Yes		86742	sunny No wind	
10-12-04	8:53A	16.39	370	309	5.22	Yes		88561	sunny breezy warm	
10-13-04	1:15P	16.66	408	344	5.27	Yes		89270	sunny No wind warm	
10-14-04	9:05A	15.46	374	306	5.90	Yes		90788	Fog bank no wind cool	
10-15-04	4:31P	15.69	385	317	5.48	Yes	8:20A	93138	Partly foggy breezy	
10-16-04	8:14A							94327	cloudy No sun	

Notes:
 Temp = Temperature in degrees centigrade
 S-Cond = Specific Conductance in micro-siemens per centimeter
 Cond = Conductivity in micro-siemens per centimeter
 DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters				New Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)	In use?	Time on / Time off		
10-1-04	3:50	15.79	416	340	560	yes		74309	Fog bank cool wind
10-2-04	8:35A	15.81	420	346	504	yes		75506	warm and sunny
10-3-04	8:55A	15.83	402	331	586	yes		76607	cloudy no sun
10-4-04	9:41A	16.13	387	322	575	yes		77728	clear windy
10-5-04	8:33A	15.62	387	310	571	yes		78762	sunny no wind

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters				In use?	New Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)		Time on	Time off		
10-9-04	8:44 A	1390	305	240	591	Yes	8:35A	83083	Sunny very windy	
10-11-04	9:09A	1423	312	248	745	Yes		86742	Sunny no wind	
10-12-04	9:05A	1508	311	252	848	Yes		88561	Sunny breezy warm	
10-13-04	11:21P	1501	307	248	558	Yes		89270	Sunny No wind warm	
10-14-04	9:16A	1413	310	246	663	Yes		90788	fog bank No wind cool	
10-15-04	4:36P	1430	310	247	522	Yes		93138	partly foggy breezy	
10-16-04	8:16A						8:24	94327	Cloudy no sun	

Notes:
 Temp = Temperature in degrees centigrade
 S-Cond = Specific Conductance in micro-siemens per centimeter
 Cond = Conductivity in micro-siemens per centimeter
 DO = Dissolved Oxygen in milligrams per liter

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				DO (mg/L)	In use?	Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	Time on			Time off			
10-1-04	3:16P	15.79	416	340	560	Yes			74309	Fog bank cool windy	
10-2-04	8:35A	15.81	420	346	564	Yes			75506	warm and sunny	
10-3-04	8:55A	15.83	402	337	550	Yes			76607	cloudy No sun	
10-4-04	1:41A	16.18	387	322	575	Yes			77728	clear windy	
10-5-04	8:32A	15.62	387	310	571	Yes			78762	sunny no wind	
10-6-04	9:28A	15.85	370	305	585	Yes			79892	sunny windy	
10-7-04	8:15A	15.88	361	298	543	Yes			80909	clear sunny windy	
10-8-04	8:29A	15.94	362	299	530	Yes			81998	sunny few clouds no wind	
10-9-04	8:36A	15.80	357	294	547	Yes			83083	sunny vary windy	
10-11-04	8:49A	15.74	365	300	539	Yes			86742	Sunny No wind	
10-12-04	8:53A	16.39	370	309	522	Yes			88561	Sunny breezy warm	
10-13-04	1:15P	16.66	408	344	527	Yes			89270	Sunny No wind warm	
10-14-04	9:05A	15.46	374	306	590	Yes			90788	Fog bank no wind cool	
10-15-04	4:31P	15.69	385	317	548	Yes			92138	Partly foggy breezy	
10-16-04	8:16A							8:20A	94327	cloudy No sun	

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters				DO (mg/L)	In use?	New Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)				Time on	Time off		
10-1-04	3:15P	15.79	416	340	560	yes			74309	fog bank cool wind	
10-2-04	8:35A	15.81	420	346	564	yes			75506	warm and sunny	
10-3-04	8:55A	15.83	402	331	585	yes			76607	cloudy no sun	
10-4-04	9:41A	16.13	387	322	576	yes			77728	clear windy	
10-5-04	8:33A	15.62	387	310	571	yes			78762	sunny no wind	

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

NEW WELL
EL SUR RANCH

Date	Time	Water Parameters			New Well		Total kw hr	Weather	
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)	In use?			Time on
10-9-04	8:44 A	1390	305	240	591	Yes	8:35A	83083	Sunny very windy
10-11-04	9:00 A	1423	312	248	745	Yes		86742	Sunny No wind
10-12-04	9:05 A	1508	311	252	848	Yes		88561	Sunny breezy warm
10-13-04	1:21 P	1501	307	248	558	Yes		89270	Sunny No wind warm
10-14-04	9:16 A	1413	310	246	663	Yes		90788	Fog bank No wind cool
10-15-04	4:36 P	1430	310	247	522	Yes		93138	Partly foggy breezy
10-16-04	8:16 A						8:24	94327	Cloudy No Sun

Notes:
 Temp = Temperature in degrees centigrade
 S-Cond = Specific Conductance in micro-siemens per centimeter
 Cond = Conductivity in micro-siemens per centimeter
 DO = Dissolved Oxygen in milligrams per liter

2005 Old Well

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)	In use?	Time on		
5-23-05	14:04	9.65	286	181	40.1%	YES	14:04	00001	clear windy
5-24-05	8:33	9.67	263		60.8%			00864	"
5-25-05	8:51	9.37	250	176	7.98			02004	low fog
5-26-05	8:34	9.21	247	172	7.71			03130	low fog
5-27-05	8:11	9.22	246	172	7.73			04238	low fog
5-28-05	8:16	9.21	246	172	7.71			05366	partly cloudy wind
5-29-05	9:31	9.44	248	174	8.52			06549	Sunny windy
5-30-05	9:36	9.51	249	175	7.93			07677	Sunny windy - hot island
5-31-05	7:50	9.20	248	173	7.97			08706	Sunny - breezy
6-1-05	8:25	9.32	248	174	8.41			09835	Sunny - windy
6-2-05	8:24	9.24	249	174	8.29			10944	Sunny - windy
6-3-05	8:21	9.17	249	174	8.36			12052	Sunny - windy
6-4-05	7:59	9.11	253	176	8.54			13843	High fog - breezy
6-5-05	9:48	9.31	254	178	8.66			15788	Sunny - windy
6-6-05	14:41	9.43	254	179	11.643			17961	Sunny - windy
6-7-05	8:37	9.42	254	178	9.82			19293	Sunny - windy
6-8-05	8:26	9.74	253	180	8.98			21066	Sunny windy
6-9-05	8:45	9.65	252	178	9.11			22858	partly cloudy - breezy
6-10-05	12:53	9.68	252	178	9.16			24907	low clouds - light rain
6-11-05	8:04	9.44	252	177	9.12			26301	low fog on coast / Sunny - windy
6-12-05	7:40	9.51	253	178	9.19			2781	low fog - windy
6-13-05	11:53	10.14	252	180	6.92			30047	Fog blank weather island
6-14-05	8:35	9.68	252	178	9.06			31544	clear - breezy
6-15-05	16:57	10.15	252	180	9.25			33886	Sunny - few high clouds - windy
6-16-05	10:15	9.90	252	179	9.09			35153	Sunny - windy
6-17-05	8:31	9.94	251	179	9.04			36770	partly cloudy - rain expected
6-18-05	8:48	9.95	251	179	9.18			38537	mostly cloudy - no wind / light rain last night
6-19-05	9:51	10.18	252	181	9.21			40372	partly cloudy - breezy
6-20-05	8:43	10.02	252	180	9.39			42065	Sunny clear No wind
6-21-05	13:09	10.52	253	182	9.60			44141	Sunny windy

Notes:

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- S-Cond = Specific Conductance in micro-siemens per centimeter
- Cond = Conductivity in micro-siemens per centimeter
- DO = Dissolved Oxygen in milligrams per liter

0896.2-301

first day

~~0896.2-301~~

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				In use?	Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)		Time on	Time off		
6-22-05	8:17	10.16	252	181	9.53			45556	Sunny - windy	
6-23-05	21:00	10.12	257	185	9.41			47809	Partly cloudy - breezy	
6-24-05	8:22	10.18	265	190	9.31			49106	cloudy - NO sun or wind	
6-25-05	8:34	10.24	290	208	9.33			50895	mostly cloudy - no wind	
6-26-05	7:32	10.13	308	220	10.02			52571	Sunny - fog bank on ocean	
6-27-05	9:04	10.21	309	222	9.32			54404	partly Sunny - patchy fog	
6-28-05	8:28	11.01	305	224	9.40			55465	partly Sunny - patchy fog - slight wind	
6-29-05	9:10	10.33	294	212	9.35			57253	low fog - No sun or wind	
6-30-05	9:04	10.23	290	208	9.65			59079	low fog - breezy	
7-1-05	8:27	10.23	281	202	9.50			60818	low fog - No wind	
7-2-05	7:59	10.22	276	198	9.34	no	8:00	62550	low fog - No wind	
7-11-05	8:25A	10.46	263	190	10.92	yes	8:26	62550	clear - windy	
7-12-05	9:16	10.48	258	187	9.86			64438	clear - windy	
7-13-05	8:21	10.50	259	187	9.51			66161	clear - windy	
7-14-05	8:27	10.34	259	187	9.14			67957	low fog - No wind	
7-15-05	8:19	10.43	262	189	9.03			69770	low fog - No wind	
7-16-05	7:28	10.38	260	187	9.26			71105	low fog - No wind	
7-17-05	7:41	10.97	265	194	2.40			73190	"	
7-18-05	9:32	10.57	263	191	9.14			74879	Sunny - windy	
7-19-05	8:54	10.61	263	191	9.32			76626	Sunny - windy	
7-20-05	8:32	10.52	320	231	1.45			78399	low fog - breezy	
7-21-05	8:56	10.64	491	356	9.48			80226	mostly cloudy - breezy	
7-22-05	8:51	10.94	673	492	10.10			81582	sunny - windy	
7-23-05	8:25	10.69	709	515	9.68			82648	Sunny - warm - no wind	
7-24-05	9:22	10.84	731	523	10.07			83778	low fog - Sunny island	
7-25-05	8:32	10.60	720	522	9.60			84789	Sunny - windy	
7-26-05	8:20	10.60	692	502	10.04			85847	low fog - windy	
7-27-05	9:08	10.65	644	468	9.14			86948	low fog - No wind	
7-28-05	8:52	10.68	603	438	8.77			88002	low fog - No wind	
7-29-05	8:25	10.66	566	411	8.89			89646	low fog - No wind	

~~in pump house~~

Notes:
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S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters				In use?	Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)		Time on	Time off		
7-30-05	8:59	10.76	530	385	8.33			90112	low fog - No wind	
7-31-05	10:55	10.68	580	381	9.91			91461	fog bath low winds	
8-1-05	8:22	10.71	465	338	8.55			92231	low fog - No wind	
8-2-05	8:35	10.70	440	320	8.36			93295	partly fog - sunny - breezy	
8-3-05	8:04	10.66	418	304	8.48	NO	8:04	94336	low fog - No wind	
8-11-05	2:35	11:27	279	210	9.79	YES	3:35	94337	fog bank clear inland	
8-12-05	4:27A	11:15	292	214	6.62			95131	low fog no sun around	
8-13-05	8:10	10.98	291	213	7.86			96161	high fog No wind	
8-14-05	8:29	10.97	288	211	8.81			97289	"	
8-15-05	9:36	10.99	288	211	7.61			98380	cloudy, few sprinkles	
8-16-05	13:06	11.25	288	213	8.20			99601	cloudy cool saline breeze	
8-17-05	9:16	11.02	290	213	8.72			00515	"	
8-18-05	8:20	10.92	290	212	8.67			01566	cloudy fog - wet	
8-19-05	8:15	11.15	293	216	8.74			02613	high clouds no wind	
8-20-05	8:22	10.88	333	243	8.12			03680	"	
8-21-05	2:05	10.81	419	306	8.11			04724	fog bank No wind	
8-22-05	9:06	10.78	529	386	7.27			05863	fog bank very windy	
8-23-05	8:21	10.69	598	434	7.46			06904	low fog - wet No wind	
8-24-05	8:28	10.74	639	465	7.31			07988	low fog - wet No wind	
8-25-05	9:57A	10.92	649	474	8.03			09149	partly clouds no wind	
8-26-05	8:34	10.65	751	545	8.62			10888	SUNNY no wind	
8-27-05	8:31	10.34	352	252	8.06			11847	Sunny - breeze no wind	
8-28-05	9:09	10.84	602	439	8.04			12985	Sunny - windy	
8-29-05	8:15	10.92	545	398	8.66			14016	Sunny windy	
8-30-05	8:49	10.99	553	404	8.71			15859	Sunny warm no wind	
8-31-05	9:59	11.18	545	401	8.44			17758	" windy	
9-1-05	8:38	10.76	523	381	8.37			19459	fog no wind cold	
9-2-05	9:33	10.80	517	380	8.41	NO	12:00	20871	"	
9-6-05	10:05	11:37	289	210	9.61	YES	10:05	20917	Sunny windy cooler	
9-7-05	8:29	10:29	339	248	9.81			21911	"	

Pump went off over

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

OLD WELL
EL SUR RANCH

Date	Time	Water Parameters					Old Well		Total kw hr	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (mg/L)	In use?	Time on	Time off		
9-8-05	8:36	11.03	345	253	8.38	Yes			23057	overcast breezy
9-9-05	8:25	11.02	340	249	8.13				24178	overcast no wind
9-10-05	8:06	10.90	333	243	7.97	off			25300	Sunny breezy
10-10-05	9:40	11.60	297	221	7.72	on	9:40		25242	Sunny warm no wind
10-11-05		11.35	293	218	7.31				27008	"
11-12	3:27	11.76	286	214	7.21				28436	fog cool light wind
10-13-05	10:08	11.62	284	212	6.53				29343	Sunny warm No wind
10-14-05	8:57	11.17	283	209	7.02	off		night?	30429	Sunny - breezy
10-17-05	8:43	12.29	273	207	7.06	on	8:43A		31185	Sunny south winds
10-18-05	9:15	11.34	279	207	7.33	off			32332	" "
10-19-05	4:00	16.33	277	206	5.6	off		4:00p	33751	cloudy no winds
11-1-05	8:13					on	8:13		33777	Sunny light winds
11-2-05	8:15								35640	cloudy no wind
11-3-05	8:19								37499	Sunny breezy
11-4-05	8:00					NO		8:17	39338	Sunny No wind Trace of
11-6-05	8:20					ON	8:20		39339	high clouds - no wind
11-7-05	15:59								41723	mostly cloudy - few raindrops
11-8-05	9:22								43021	clouds - good rain last night
11-9-05						OFF	9:45		44816	clouds abn

Rain last night

Notes:
Temp = Temperature in degrees centigrade
S-Cond = Specific Conductance in micro-siemens per centimeter
Cond = Conductivity in micro-siemens per centimeter
DO = Dissolved Oxygen in milligrams per liter

2002

El Sur Ranch Irrigated Pasture Daily Log

Old Well

Date	Time	Water Parameters				Old Well			Weather
		Temp C	S-Cond	Cond	DO	Time On	Time Off	Pasture	
5-30-06	9:20	9.66	319	225	5.61	9:20		NP	Sunny
5-31-06	11:39	9.86	314	222	5.57			NP	Sunny
6-1-06	9:12	9.99	310	224	6.45			NP	overcast
6-2-06	9:50	9.96	306	222	6.46			NP	Sunny
6-3-06	8:11	9.99	308	221	6.51			NP	Sunny
6-4-06	8:59	9.93	302	217	6.55			SP	Sunny
6-5-06	9:26	9.60	298	210	7.34			SP	Sunny
6-6-06	8:06	9.39	307	215	8.38			SP	Sunny
6-7-06	9:19	9.36	308	216	10.01			SP	Sunny
6-8-06	8:42	9.47	307	216	8.47			SP	Sunny
6-9-06	8:12	9.55	310	217	8.41	8:12		SP	Sunny
7-4-06	10:50	10.45	339	245	6.57	10:50		AP	Sunny windy foggy
7-5-06	8:26	10.34	325	234	6.91			NP	Sunny
7-6-06	8:50	10.37	315	227	7.77			NP	Sunny
7-7-06	9:21	10.31	316	229	8.04			NP	Sunny
7-8-06	8:18	10.40	313	227	7.68			NP	Sunny
7-9-06	9:33	10.46	315	229	7.83			NP	Sunny
7-10-06	8:58	10.29	321	231	8.32			NP	Sunny
7-11-06	8:43	10.33	329	237	7.83			NP	Sunny
7-12-06	8:39	10.76	368	268	8.13			SP	Sunny
7-13-06	9:19	10.52	419	301	8.22			SP	Sunny
7-14-06	10:30	10.49	440	318	8.22			SP	Sunny
7-15-06	8:21	10.50	444	322	8.71			SP	Sunny
7-16-06	9:17	10.48	427	309	8.90			SP	Sunny
7-17-06	9:35	10.42	410	296	8.51			SP	Sunny
7-18-06	9:21	10.46	412	310	8.87	9:21		SP	Sunny
7-20-06	4:33	10.85	309	229	9.67	4:33		SP	Sunny
7-21-06	8:27	10.78	333	243	9.82			SP	Sunny
7-22-06	8:18	10.84	334	243	10.49			SP	Sunny

8896.2-301
start

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

El Sur Ranch Irrigated Pasture Daily Log

Old Well

Date	Time	Water Parameters			DO	Time On	Old Well		Total kW-hr #7	Weather
		Temp C	S-Cond	Cond			Time Off	Pasture		
7-23-06	8:58	11.03	351	258	9.35	YES	#4	86950	Sunny hot no wind	
7-24-06	11:37	11.19	334	246	8.58		#3	88112	"	
7-25-06	9:04	10.90	338	247	10.82		#3	89053	Sunny hot fog bank light winds	
7-26-06	8:44	10.73	336	245	8.55		#3	90095	hot in land fog along coast	
7-27-06	9:10	10.90	338	249	8.81		NP	91175	"	
7-28-06	4:14	10.68	344	253	8.35		NP	92627	Fog party sunny no wind	
7-29-06	8:19	10.94	355	260	8.51		NP	93348	low heavy fog drippings	
7-30-06	8:38	10.77	355	258	8.92		NP	94186	"	
7-31-06	9:21	10.83	355	259	9.56		NP	95629	clear windy warm inland	
8-1-06	8:40	10.79	356	259	9.71		SP	96301	strong winds sunny	
8-2-06	8:48	10.83	347	254	9.75		SP	97793	fog no wind cool	
8-3-06	10:15	10.81	349	255	9.30		SP	98954	"	
8-4-06	8:28	10.89	345	252	11.08		SP	99969	"	
8-5-06	8:42	11.07	344	253	11.03		SP	01074	"	
8-6-06	8:49	11.09	345	254	10.90		SP	02195	clear warm no wind	
8-7-06	8:25	10.90	344	251	8.34		SP	03273	clear warm light breeze	
8-9-06	8:24	11.58	340	253	5.16	8:24a	8:25am SP	03334	overcast light breeze	
8-10-06	9:10	11.96	328	246	4.33		#1	05309	"	
8-11-06	9:21	11.73	323	241	4.64		#1	07226	ground level fog no wind	
8-12-06	10:07	11.71	386	289	4.71		#3	09191	"	
8-13-06	10:53	11.57	264	196	5.29		#3	11140	"	
8-14	4:32p	11.56	299	192	5.92		#3 #4	13477	overcast light winds	
8-15	6:35a	11.21	259	194	5.88		#4	14556	clear light winds	
8-22-06	8:39a	11.86	360	270	6.47	8:39a	#4	14560	ground fog no wind	
8-23-06	8:32a	11.61	361	272	6.08		#2	15709	clear moving nice	
8-24-06	8:27	11.61	360	270	6.26		#2	16864	"	
8-25-06	9:36	11.48	359	268	6.10		#2	18025	"	
8-26-06	10:40	11.51	320	238	6.32		#3	19217	fog no sun cool	
8-27-06	9:48	11.50	319	231	6.26		#3	20334	"	

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

El Sur Ranch Irrigated Pasture Daily Log

Old Well

Date	Time	Water Parameters			DO	Time On	Old Well		Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.			Time Off	Pasture		
9-28-06	8:41 A	11.45	321	238	6.10	on cont		21461	high clouds - overcast	
9-29-06	8:17 A	11.47	322	239	6.17		8:10 A	22592	11	

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

El Sur Ranch Irrigated Pasture Daily Log

New Well

Date	Time	Water Parameters			DO	Time On	New Well		Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.			Time Off	Pasture		
5-31-06	11:40	9.30	315	221	6.43	11:40 A		45893	Sunny windy	
6-1-06	9:20	9.89	310	220	7.68			45893	overcast windy	
6-2-06	9:50	10.27	324	234	8.94			47879	Sunny warm windy	
6-3-06	8:11	10.16	325	230	4.82			49498	Sunny windy	
6-4-06	9:00	10.89	315	232	9.90			51204	Sunny windy	
6-5-06	9:26	9.66	319	228	10.85			53072	Sandy windy	
6-6-06	8:06	9.71	320	227	7.90			54183	Sandy windy	
6-7-06	9:19	9.95	319	228	10.85			56672	Sandy windy	
6-8-06	8:42	9.80	319	227	8.55			58387	Sunny windy	
6-9-06	8:12	9.73	319	226	10.90			60183	Sunny windy fog bank	
6-10-06	8:22	9.60	319	225	8.47			60899	high clouds no wind	
6-11-06	9:42	9.66	319	226	8.79			61667	high clouds cool no wind	
6-12-06	11:00	10.46	319	230	4.49	11:00 A		62447	high clouds cool no wind	
7-1-06	9:33	10.13	331	237	7.42	9:33		68124	Sunny warm fog bank light wind	
7-10-06	8:58	10.03	328	235	8.96			69929	Sunny warm fog bank light wind	
7-11-06	8:47	9.96	328	234	9.76			71728	Sunny warm fog bank light wind	
7-12-06	8:39	10.00	326	233	6.84			72547	Sunny cooler fog bank stronger breeze	
7-13-06	9:19	10.18	327	237	7.63			75346	Sunny warm wind fog bank	
7-14-06	10:30	11.67	327	244	9.30			77208	Sunny windy fog bank	
7-15-06	8:21	10.20	327	243	7.71			78814	Sunny windy fog bank	
7-16-06	9:17	10.26	329	237	7.88			80628	Sunny windy fog bank	
7-17-06	9:35	10.05	328	235	8.53			82412	" "	
7-18-06	9:21	10.19	328	337	7.95	8:21	9:21	84147	Sunny light breeze cool	
9-9-06	8:24	11.34	315	233	4.18			03334	overcast	
9-10-06	9:10	10.92	317	232	6.88			05309	overcast light breeze	
9-11-06	9:21	10.57	313	229	4.07			07226	" "	
9-12-06	10:09	10.54	380	227	6.80			09191	ground level fog no wind	
9-13-06	11:00	10.41	263	190	7.55			11140	" "	
9-14-06	4:32 p	10.40	260	190	7.15			13477	overcast light winds	

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

El Sur Ranch Irrigated Pasture Daily Log

New Well

Date	Time	Water Parameters			New Well		Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.	Time On	Time Off		
9-15-06	6:35A	10.27	260	189	cont	6:35A	14556	clear light winds
10-6-06	3:51P	10.69	326	238	3:51P	#8	22593	high clouds winds cool
10-7-06	8:28A	10.57	325	236		#8	23092	clear southwind cool
10-8-06	8:25A	10.01	332	237		#847	23813	clear New wind cool
10-9-06	9:18A	10.17	332	238		#817	24550	fog banks ocean New wind
10-10-06	8:54A	10.38	332	239		#7	25119	overcast southwind cool
10-11-06	8:45A	10.31	333	239		#7	25954	"
10-12-06	8:31A	10.10	331	237		5:41P P.H	26676	partly cloudy cool

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

2007 loc

El Sur Ranch Irrigated Pasture Daily Log

Old Well

Date	Time	Water Parameters			Old Well		Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.	DO	Time On		
5-24-07	10:45	10-29	446	321	52.7	10:45	26964	clear, occasional passing light wind
5-25-07	9:06	9:59	439	310	57.2	9:06	28025	no wind, fog over, so sun
5-31-07	3:20P	10:29	438	315	67.6	3:20P	28026	clear, windy
5-31-07	0:00	10:05	437	314	69.2	8:34A	28070	fog, no sun, cool breeze
6-2-07	8:15A	9:87	414	294	66.3	8:15A	28666	overcast, no breeze
6-3-07	9:20P	9:70	410	290	66.7	8:23A	29289	high clouds, sunny, light winds
6-4-07	8:30A	9:71	411	292	65.5	8:30A	29289	clear, high clouds, nice
6-5-07	9:30P	9:62	411	291	68.7	8:09	29831	high clouds, sunny, windy
6-6	8:10A	9:32	414	291	66.3	8:10A	30466	clear, windy, patchy high clouds
6-7	8:10A	9:26	415	292	66.5	8:10A	31095	clear, slight breeze, high clouds
6-8	8:20	9:46	415	292	66.5	8:20A	31722	clear, sunny, 1st wind, nice
6-9	9:45A	9:59	415	292	67.5	9:45A	32348	bright sunny, high clouds
6-9	9:10	9:59	416	293	65.0	8:10A	32956	warm wind, high clouds
6-12	8:23A	9:62	416	292	68.2	8:23A	33604	1st wind, sunny, clear
6-13	8:45A	9:44	444	311	69.1	8:45A	34757	no wind, warm, clear
6-14	8:05A	8:75	624	430	78.5	8:05A	35817	cloudless day, no wind, warm
6-15	8:10A	8:46	1077	747	70.1	8:10A	36930	no clouds, warm, sunny
6-15	6:15PM	9:72	440	312	67.4	6:15PM	38096	high clouds, warm, sunny
6-16	6:15AM	9:00	1164	808	101.4	6:15AM	38102	slight breeze, clear
6-17	7:25A	9:41	463	325	68.7	7:25A	38670	1st wind, sunny, clear
6-17	9:25A	9:41	463	325	68.7	9:25A	38670	1st wind, sunny, clear

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

El Sur Ranch Irrigated Pasture Daily Log

Old Well

Date	Time	Water Parameters				Old Well			Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.	DO	Time On	Time Off	Pasture		
6-18-07	6:20X	8.21	923	645	72.4			S. Pasture	39748	OVERCAST FOGGY
6-19-07	6:15A	9.25	1142	798	69.4		6:15A		40856	INCREASED in st. Southwind
6-19-07	3:41P	9.58	459	324	65.6	3:41		S. Pasture	40859	sun in PA patch clouds south wind
6-20-07	3:51P	9.81	1464	1036	80.6		3:51P		42717	Sunny patch clouds warm
6-21-07	6:00A	8.92	523	362	70.2				43141	clouds, mid wind
6-22-07	5:55A	9.34	2229	1562	104.2		5:55		44938	Mid clouds STIFF WIND
6-23-07	5:50A	9.00	2910	2022	70.1		5:50		45669	clear sky very windy
6-24-07	5:40P	10.06	2232	1952	77.4		5:40P		46762	Sunny very windy
7-6	4:10	10.96	607	428	91.7				54503	windy, Southbound Fog AM
7-7	3:40	10.34	1116	802	85.1				56466	Sunny, warm, windy
7-18	9:00 A.	15.84	486		114.0	9:00 A.			60909	Overcast warm, warm
7-19	8:24A	14.58	444	356	121.0				61942	Sunny, no clouds, cloudy
7-20	5:03P	14.28	870	380	122.1				63509	"
7-21	8:31A	14.31	511	407	112.6				64221	"
7-22	8:43A	14.36	567	452	110.2				65302	"
7-23	8:30A	14.49	602	482	102.0				66336	Sunny, overcast, wind, warm
7-24	8:14A	14.33	697	540	96.3				62443	Few high clouds, sunny, wind
7-25	9:12A	14.50	778	623	85.1			North	68571	1-4 mid cloud, warm, few clouds
7-26	9:25A	14.29	971	773	90.0				69750	wind, warm no clouds
7-27	8:35A	14.61	1288	1029	92.8		8:35A		70844	"
7-28	8:49A	14.51	540	436	110.0			North	75307	High clouds, 1st wind, cool
7-29	7:35A	14.34	888	708	115.8			North	76388	Fog, misty, cool
7-30	8:28A	15.56	356	292	113.9			"	76925	"
7-31	8:35X	15.56	356	292	113.9			"	76925	High clouds wind, warm
8-7	8:36A	15.11	796	645	116.4			"	78027	Sunny, stiff wind, warm
8-8	9:07	15.20	1.026	887	118.5		9:07A	1.	79239	South, thick, warm
8-9	9:55	15.22	349	258	123.9	9:55A			79240	Sunny - windy
8-10	8:31A	14.63	1.085	870	66.1		8:31A		80335	Sunny - fog, but light clouds
8-11	8:29A	15.05	404	327	59.9	8:29A		S. Pasture	80335	"

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture is the pasture number or name being irrigated.

Old Well

El Sur Ranch

Year 2007

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)	DO (%)						
8-12-07	7:47	14.46	1013	809	68.1		7:47A	81416	SP	Sunny clear very windy	
8-13	9:39A	15.72	1120	346	62.2			82536			
8-14	9:41A	14.81	856	689	63.3			81416			
8-15	9:26A	14.86	1162	939	61.6		9:26A	83655			
8-22	4:52P	15.61	361	297	62.1	4:50P		83655			
8-23	9:13A	15.28	546	445	62.6			84421			
8-24	10:07A	15.09	515	417	59.9			85582		Sunny fog bank - very windy	
8-25	9:37A	15.04	553	448	59.4			89659		NO SUN light wind	
8-26	6:40P	14.96	720	582	57.6			89359		NO SUN south winds high clouds	
8-31	3:00P	15.02	1139	722	63-6	3:00	6:40P	89359		fog	
9-1	10:17A	16.70	391	329	63-6			89359		fog up in hills - sunny inland no wind	
9-2	9:02A	15.37	667	544	63-6			90816		High storm clouds - hot	
9-14	12:13P	15.11	1072	868	63-6		6:40P	92545		sunny hot no wind	
9-15	9:13A	16.49	606	508	63-6			96976		stormy hot inland windy, obsc. vis	
9-16	9:24A	15.67	726	596	63-6			98045		High clouds, winds	
9-17	10:12A	15.42	785	641	65.7		9:02A	99153	SP	clear sunny windy	
9-18	9:48A	15.52	805	659	65.7			00204		clear fog bank very windy	
9-19	9:06	15.15	781	634	65.4			01256			
9-20	12:13P	15.14	753	611	65.4			02488			
9-21	10:01P	15.18	722	587	64.5			03509		NO SUN cloudy - light winds	
9-28	9:15A	15.20	715	587	64.5			03514		rain last night - clear	
9-29	9:15A	16.18	364	375	61.5			05289		partly clear - clear	
9-30	9:33	15.37	482	303	61.7			07115		overcast no wind	
10-1	11:34	15.26	668	374	64.5			09166	2	rain last night - clear and breezy	
10-2	7:54	15.46	1960	544	61.4			10585	2	Sunny clear	
10-3	8:25	14.93	3661	1604	60.3			12402	3	Sunny clear windy	
10-4	8:05	14.76	5601	2959	60.0					SUNNY CLEAR BREEZY	
				4518	59.0					SUNNY - V. WINDY	
					66.6						

Our Ranch Irrigated Pasture Daily Log

New Well

Date	Time	Water Parameters			DO	New Well		Total kW-hr #7	Weather
		Temp C	S-Cond.	Cond.		Time On	Time Off		
5-31-07	3:20p	8.68	422	292	10.7	3:20p			
5-31-07	3:4p	7.48	422	257	99.2	3:50p			clear, windy
6-20-07	4:05p	9.35	426	255	54.6				Sunny patches of clouds - SW wind
6-20-07	6:10A	8.64	428	244	99.4				Sunny patches of clouds - SW wind
6-20-07	6:05A	9.03	428	247	99.0				Sunny patches of clouds - SW wind
6-20-07	6:00A	9.05	431	300	93.7				Sunny patches of clouds - SW wind
6-25-07	5:50P	9.88	432	303	99.7				High clouds - STIFF wind
6-25-07	4:38P	9.64	430	305	73.9				High clouds - STIFF wind
6-27	4:30P	9.64	432	305	100.1				High clouds - STIFF wind
6-28	4:30P	9.66	432	305	98.8				High clouds - STIFF wind
6-28	4:38P	9.91	429	306	81.3				High clouds - STIFF wind
6-29	4:58P	9.84	432	307	11.46				High clouds - STIFF wind
6-30	4:55P	9.61	433	306	111.1				High clouds - STIFF wind
7-1	5:15P	9.22	432	306	90.7				High clouds - STIFF wind
7-2	4:31	10.11	433	310	90.8				High clouds - STIFF wind
7-3	4:15	10.11	432	310	101.8				High clouds - STIFF wind
7-4	6:52P	10.10	432	310	97.1				High clouds - STIFF wind
7-5	5:35P	9.59	431	304	107.4				High clouds - STIFF wind
7-6	4:05P	9.67	430	304	103.5				High clouds - STIFF wind
7-7	5:40P	9.49	429	302	86.3				High clouds - STIFF wind
7-8	5:10P	9.49	430	303	100.8				High clouds - STIFF wind
7-9	4:46P	9.32	430	302	101.6				High clouds - STIFF wind
7-10	4:38P	9.60	431	306	73.3				High clouds - STIFF wind
7-11	4:12P	9.89	432	307	96.3				High clouds - STIFF wind
7-12	4:10P	9.69	432	309	87.7				High clouds - STIFF wind
7-13	5:55P	9.71	432	306	81.1				High clouds - STIFF wind
7-14	8:05P	13.68	1322	139.2	14.42				High clouds - STIFF wind
						8:07P			High clouds - STIFF wind

Table Notes: Temperature in degrees centigrade, Conductivity in micro-siemens per centimeter, Dissolved Oxygen in milligrams per liter, Pasture the pasture number or name being irrigated.

Date	Time	Water Parameters						DO (mg/L)	Time on	Time off	Total kw hr Meter # 7	Field #	Weather
		Temp (°C)	S-Cond (µS/cm)	Cond (µS/cm)									
7-27-07	9:03 A	13.75	314	247	110.8	7:05 A	5	warm, windy, no clouds					
7-28	8:35 P	13.23	321	249	121.5		2	fog, light breeze, warm					
7-29	6:50 A	13.08	322	253	120.8		2	fog, cool, windy					
7-30	9:05 A	13.62	323	252	134.0		2	fog, sunny, cool					
8-1	8:30 A	13.82	322	253	132.9		1	overcast, fog, cool					
8-10 A	8:10 A	13.42	323	257	136.1		1	overcast, fog, cool					
8-2	8:00 P	13.47	326	255	126.6		1	overcast, cool					
8-3	8:23	13.50	327		150.1		1	overcast, cool, heavy mist					
8-31	3:00 P	14.25	353	281	73.6	3:00 P	4	overcast, no wind, cool					
9-1	10:17 A	13.91	356	281	65.5		6	high storm clouds - hot					
9-2	9:05 A	13.56	358	281	53.7		6	sunny, hot, no wind					
9-3	9:28 A	13.62	358	281	53.6		6	sunny, hot, no wind					
9-4	9:52 A	13.74	369	290	52.2		6	sunny, hot, no wind					
9-6	9:04 A	13.86	373	293	51.7		6	fog, heavy mist, wind, heavy mist					
9-6	9:04 A	13.62	374	293	50.9		6	fog, heavy mist, wind, heavy mist					
9-7	10:41	13.82	380	299	64.7		6	clear, warm, no wind					
9-28	3:11 P					3:11 P	3	sun, winds - cold fog bank					
9-28	9:15 A	14.07	358	283	49.0	9:15 A	6	overcast, cool, no sun, no wind					
9-30	9:53 A	13.80	357	281	42.5		7+8	overcast, sunny, clear, breezy					
10-1	11:34	13.96	366	281	41.1		8	clear, sunny					
10-2	7:54	13.65	365	287	51.9		7	sunny, clear, windy					
10-3	9:55	13.02	370	290	54.7		7	sunny, clear, breezy					
10-4	8:33	13.56	388	303	76.5		6	sunny, clear, windy					
10-5	8:19	13.50	439	343	74.1	8:35 AM	6	sunny, v. windy					
					73.2		5	overcast, cloudy, breezy					

COPY

Year 2008

El Sur Ranch

Old Well

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (C)	S-Cond	Cond	Flow meter						Daily	Total x tk	
3-21-08	5:16p	13.27	355	275	42.1	5:15p		15055	1121	1238	25805	cool clear light winds	
4-1-08	6:10p	12.96	345	265	50.3			16155		1727	26743	high clouds no winds cool	
4-2	8:21A	13.10	345	260	51.1		8:21A	16780		1727	27470	very light rain clouds	
4-15	2:05p	13.02	347	261	51.9	2:05p		17678	1121	1141	28517	clear light rain clouds	
4-16	10:14A	12.95	338	261	51.8			18660		1124	29636	clear light winds no clouds	
4-17	8:33A	12.58	332	253	57.1			19794		1591	30755	clear light winds no clouds	
4-19	10:40A	12.62	334	258	56.7			20818		1200	32127	fog overcast cool windy	
4-20	9:34A	12.76	325	243	61.1			21842		1295	33322	fog bank clear calm cool w/	
4-21	9:41A	12.18	328	243	59.9			22939	5.11	1254	34576	clear cool very windy	
4-22	5:58P	12.20	332	243	59.1			24338	5.11	1580	36156	cloud cover light winds, clear	
5-7	8:31A	12.98	351	270	59.0	8:31A		25338		1185	37341	cool fog bank very windy	
5-8	8:13A	12.77	330	253	58.9			26438		1204	38545	clear high clouds fog bank windy	
5-9	8:23A	12.80	332	248	57.1			27493		1208	39783	clear cold and windy	
5-10	8:30A	12.51	323	240	60.5			28554		1215	40968	clear high clouds fog windy	
5-11	8:37A	12.72	325	246	60.4			29589		1176	42144	clear cool light winds	
5-12	8:28A	12.66	330	248	63.9			30679		1263	43407	high clouds cool no wind	
5-13	9:02A	12.53	326	247	64.3			32429	4	1866	45532	warm coast - hot inland	
5-14	9:18A	12.47	326	248	65.8			34067		1791	46823	clear cool light winds	
5-15	8:26A	12.70	335	257	66.1			35925		1140	47983	fog bank windy hot inland	
5-16	9:50A	12.94	348	268	65.0			37606	3	1212	49175	fog + high clouds cool	
5-17	8:46A	13.02	364	281	66.4			39407		1216	50391	very windy and cold	
5-18	9:24A	12.79	421	322	66.4			41124		220	51611	clear	
5-19	9:25A	12.77	507	389	66.9			42933		1183	52794	clear	
5-20	9:21A	12.81	609	467	66.9			44638	2	556	53550	clear	
5-21	9:40A	12.70	798	610	66.0			47310		900	54250	clear	
5-22	2:44P	12.69	866	667	68.2	Power out Turnoff?		49082	0.11	1220	55470	clear	
5-23	8:22A	12.74	951	667	66.9	08:30		50127		1175	56645	clear	
5-24	9:27A	13.00	929	728	67.1			51161		1163	57808	clear	
5-25	9:39A	13.00	694	716	63.1			52253		1241	59049	clear	
5-26	8:35A	13.01	576	535	68.2			53502		1192	60241	clear	
5-27	9:41A	13.16	510	444	66.9			54284		1114	61360	clear	
5-28	9:36A	13.38	471	395	65.2			55366		1230	62570	clear	
5-29	8:29A	13.39	460	367	67.4			56362	3.21	1133	63723	clear	
5-30	9:13A	13.25	424	360	64.9			57409		1165	64888	clear	
5-31	8:05A	13.46	412	329	66.7			58772		1536	66404	clear	
6-1	8:28P	13.22	400	319	65.6							clear	
6-2	4:07P	13.52	380	304	65.4							clear	

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Year 2008

El Sur Ranch

Old Well

Date	Time	Water Parameters					Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	DO (%)	DO (°C)					Daily	Total x 1k	
6-3-08	8:17A	13.49	328	304	63.5			59470	5.48A	1779	6717.3	clear very windy cold	
6-4	10:23A	13.48	420	327	63.0			60599		1268	6845.1		
6-5	8:40A	13.41	479	373	65.7			61566		1095	6954.6		
6-6	9:42A	13.45	568	443	65.8			62667	#1	1277	7082.5		
6-7	8:54A	13.37	636	495	65.8			63654		1087	7191.0		
6-8	8:32A	13.46	828	691	65.6			6534		1020	7293.0		
6-9	8:54P	14.60	1330	1042	65.9		8:57A	67078	#1	1048	7397.8	clear warm light winds	
7-22	8:36A	14.61	371	292	68.2			80726	A.P	1638	7461.6	high clouds, fog bank, light winds	
7-24	10:36A	14.52	380	304	69.1			81342		1409	7602.1	clear warm light winds	
7-25	10:57A	14.56	377	302	68.0			82512		1337	7735.8	clear cold windy	
7-26	11:05A	14.55	379	303	68.6			83609		1335	7869.3		
7-27	8:36A	14.28	379	301	64.8			84708		1190	7988.3	clear warm light winds	
7-28	11:09A	14.55	378	302	65.1			85682		1464	8134.7		
7-29	8:30A	14.27	363	313	61.0			86884		1174	8252.1		
7-30	8:32A	14.80	451	359	60.8			88511		1377	8385.8	high clouds fog bank cool	
7-31	8:54A	14.31	780	620	53.4			90332	S.P	1311	8516.9	clear no wind AM	
7-31	5:47P	14.38	1075	860	53.7			92173		481	8565.0	clear very very windy pm	
8-20	10:38A	15.26	542	442	52.8		5:47P	92841		1201	8765.0	clear fog bank very windy	
8-21	4:37A	17.92	757	615	62.9		10:38A	96571		1442	8858.5	clear fog bank very windy	
8-22	8:34A	14.83	969	802	51.7			97597		1254	8963.7		
8-23	8:05A	14.83	1076	802	51.7			97718		1210	9084.7	high fog no wind cool breeze	
8-24	8:39A	14.83	1076	802	51.7			97768	A.P	1263	9201.0	fog bank - light wind - cool	
8-25	8:38A	15.50	736	602	59.3			98413		1280	9329.0	clear very windy - hot inland	
8-26	10:12A	15.00	696	563	60.7			01811		972	9531.2	low fog - hot inland - sea breeze	
8-27	10:04A	16.09	648	525	61.4			02996		1363	9667.5	clear warm no wind	
8-28	8:10A	14.99	611	494	50.2			03993	#1	1142	9864.7	ground level fog - no wind	
8-29	2:42P	51.7	580	472	50.7			04959		1322	9996.9	clear cold windy	
8-30	8:32A	14.82	555	447	47.5			06197		1052	10102.1	clear nice no wind	
8-31	8:31A	14.80	526	424	47.2			06956		1124	10214.5	hot	
9-1	8:42A	14.85	509	411	46.6			07958		1102	10329.0	hot	
9-2	8:38A	15.03	492	398	44.7			07958		1110	10435.7	ground fog - no wind - cool	
9-3	9:04A	14.83	479	387	44.7			09080		1142	10549.2		
9-4	5:44	14.89	464	376	44.1			10077	#3	1052	10661.9		
9-5	8:20A	14.87	457	369	43.9			11119		1124	10771.4		
9-6	8:40A	14.93	445	364	43.7			12122		1102	10843.5		
9-7	8:31A	14.93	451	364	44.4			13133		1142	10943.5		
9-8	8:54A	14.84	443	356	43.2			14174		1120	10943.5		
								15192		1120	10943.5		
								16240		1155	10771.4		

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Year 2008

Old Well

El Sur Ranch

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Daily						Total x 1k		
9-9-08	8:26A	14.57	435	350	41.7			17245	#2	105	108879	Fog - cold - first SWB winds	
9-10-08	8:39A	14.46	434	350	41.5			14283		140	110019	"	
9-11	9:07A	14.98	426	341	43.0			19326	#1	146	111165	Fog - cold - no wind, nice in	
9-12	8:31A	14.88	424	342	42.5			20325		145	112260	"	
9-13	8:53A	14.87	422	343	41.0			21826		144	113404	Fog - no sun - cold - no wind	
9-14	8:26A	14.89	427	345	41.3			23563	N.P.	147	114601	"	
9-15	8:30A	14.76	432	348	40.2			25326		1230	115831	Fog bank - clear inland - no wind	
9-16	8:26A	14.79	439	354	40.7			27095		1239	117070	Fog bank - clear inland - no wind	
9-17	8:33A	14.96	445	359	43.9			28876		1250	118320	brk fog - cloudy - light winds	
9-18	8:31A	14.73	447	362	46.1			30639		1235	119555	clear - now and spiky rise	
9-19	8:39A	14.84	449	363	48.1			32415	S.P.	1219	120774	"	
9-20	8:40A	15.08	449	363	50.0			34172		1215	121989	clear very windy cold	
9-21	8:31A	15.01	451	364	52.3			35563		1206	123195	"	
9-22	8:39A	14.64	432	348	48.4			36625		1231	124426	clear cold light winds	
9-23	8:44A	14.88	421	339	49.3			37687		1252	125678	clear nice no wind	
9-24	8:58A	14.84	424	340	49.9			38796		1381	127059	ground fog no wind	
10-9	4:53P	15.29	380	310	49.9	4:53P		38796	PH	736	127795	clear cold very windy	
10-10	8:42A	15.37	381	311	49.7			39474		736	127795	"	
10-11	8:35A	15.13	381	309	49.9			40487		1046	128891	"	
10-12	8:43A	15.17	380	308	49.0			41512		1209	130000	"	
10-13	8:54A	15.17	381	308	46.2			42531		1110	131110	clear cold no wind	
10-14	8:51A	15.19	380	305	45.7			43554		1094	132208	clear nice no wind	
10-15	7:20A	15.14	380	308	45.4			44510		1033	133241	"	
10-16	8:47A	15.02	378	306	46.8			45590		1169	134410	clear warm no wind	
10-17	8:45A	15.05	377	306	47.7			46629		1165	135575	clear no wind sunny inc	
10-18	8:50A	15.07	375	304	49.2			47629		1044	136619	cloudy cool no wind	
10-19	8:54A	15.03	374	303	50.0	Power outage 6pm		48094		406	137115	"	
10-20	8:46A	14.82	370	298	49.9	8:54A		49110		4103	138219	clear very windy, cold	
10-21	8:41A	14.84	370	299	48.7			50116		1088	139306	clear nice	
10-22	8:47A	14.99	372	300	49.2	8:41A		50815		769	140075	clear nice light clouds	
10-23	8:44A	15.00	371	300	50.8			51838	BR	1503	141178	"	
10-24	2:47P	15.25	374	305	50.8			53114		1377	142063	"	
10-25	4:30A	15.08	373	304	50.6			53865		810	143375	ground level fog, no wind	
10-26	4:51A	15.02	371	303	50.1			54890		1103	144478	"	
10-27	8:52A	14.68	370	300	49.4			55991		1095	145573	Fog bank, windy, clear inc	
10-28	9:14A	14.54	367	294	49.0			56931		1091	146664	"	
10-29	8:30A	14.41	367	295	49.1			57924		1065	147729	ground fog - cold - wct	
10-30	10:51A	14.73	365	294	48.7	10:51A		59029		910	148719	cloudy - Rain predicted	

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Year 2008

El Sur Ranch

New Well

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Daily						Total x tk		
3-24-08	10:32A	11.91	293	220	79.3	10:32A	8:17A	14393	PH		24654	clear cold very windy	
3-25	8:17A							18055	PH	1902	26556	"	
3-25	8:05P							18055				"	
5-13	7:09A	12.44	320	243	69.8	8:50P		30679	5		26556	clear cool light winds	
5-14	8:20A	12.76	319	243	61.9	9:09A		32429	5	1841	28397	high clouds cool up wind	
5-15	8:25A	13.79	319	243	62.2			34067	6	2039	30236	warm cast - hot inland	
5-16	8:00A	13.29	325	252	63.1			35923	6	1914	32150	"	
5-17	8:46A	13.26	321	249	77.6			37606	7	1802	33952	"	
5-18	8:24A	13.25	322	249	77.9			39407	7	1940	35892	fog bank windy hot inland	
5-19	9:25A	13.20	322	250	67.4			41174	7	1917	37789	fog + high clouds, cool	
5-20	9:21A	13.18	323	250	66.9			42933	7	1860	39649	"	
5-21	8:40A	13.17	321	249	51.3			44638	8	1778	41427	very windy and cold	
5-22	8:44A	13.17	322	252	50.2			46019	8	2321	43748	"	
5-23	8:22A	13.15	323	251	50.1			47310	6	2362	45110	misty cold slowly + fog south wind	
5-24	8:50A	13.22	321	252	50.5	9:06A		49082	6	1877	46987	high clouds cold, several winds	
6-7	9:05A	13.09	326	251	50.2			63654	6	1881	48868	clear very windy cold	
6-8	8:32A	13.10	324	254	52.9			65341	8	1931	50799	"	
6-9	8:50A	13.28	328	254	52.9			67078	8	1892	52681	clear warm light winds	
6-10	8:58A	13.25	327	252	51.3			68832	7	1924	54605	clear hot inland very strong winds	
6-11	9:14A	13.35	326	254	58.9			68525	7	1935	56540	"	
6-12	9:08A	13.33	326	252	59.1			67261	6	1980	58720	clear hot inland south winds	
6-13	8:11A	13.34	328	255	65.9			69997	6	1868	60288	ground fog, no wind, cold, hot inland	
6-14	8:11A	13.32	327	254	66.1			70684	6	2050	62138	"	
6-15	8:51A	13.35	328	255	66.0	9:30P		71384	6	1071	63209	few banks - light winds cold - warm in	
6-16	9:20P	13.49	334	260	56.3			71790	5	1228	64487	clear very windy hot inland	
6-17	8:59A	13.50	335	262	55.7			72274	5	2009	66496	"	
6-18	9:03A	13.89	338	265	56.8			73050	5	2121	68217	clear hot no wind	
6-19	8:26A	13.90	338	266	56.0			73714	5	744	68761	"	
6-20	8:50P							73975	1	68961	68961	clear very windy - hot inland	
6-21	8:41A	13.87	336	265	65.5	8:41A		73945	1	1315	70276	clear windy - hot inland	
6-22	8:44A	13.88	330	258	75.8			74597	2	1825	72051	clear very windy cold	
6-23	9:52A	13.87	330	256	64.1			75489	2	2898	74862	very windy clear fine ground level	
6-24	10:37A	13.66	333	259	57.8			76700	3	749	75611	"	
6-25	10:04A	13.42	334	258	52.9			77056	3	888	77112	"	
6-26	10:28A	13.50	333	262				77772		802	78345	"	
6-27	10:54A	13.54	332	267				78981		809	79537	"	
6-28	10:30A	13.50	331	259	58.2			78652		807	80808	"	
6-29	10:35A	13.78	334	262	67.9			79784				"	

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New Well

El Sur Ranch

Year 2008

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw/hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Daily						Total x 1k		
7-2	10:22A	14.32	333	266	58.4			80135	3	931	81888		
7-4	8:52A	14.44	332	267	56.7		4:52A	80799	3	850	82738	Fog bank Warm inland	
7-28	11:10	14.58	330	264	51.2	11:10A		86884	5	2185	82738	Wet inland Clear, light w/	
7-29	8:30A	13.67	338	264	50.4			88511		1874	84903	high clouds fog bank cool	
7-30	8:32A	13.42	336	264	50.1			90337		1892	96777	Fog bank, clear very windy	
7-31	8:54A	13.59	340	266	50.5			92173	6	1343	98669	clear no wind	
8-1	8:150	13.63	342	267	50.8			93306	6	1888	90545	clear wind 20-30 mph	
8-2	8:17A	13.75	367	288	53.3			94041	7	1958	92433	Fog bank light winds gusty	
8-3	8:34A	13.69	370	290	52.7			94800		1902	94891	Fog bank very windy clear inland	
8-4	8:33A	13.71	422	257	52.1			95539		1939	96293	no wind	
8-5	8:51A	13.76	506	398	51.5		1800P	96303		1939	98252	no wind	
8-6	MOON	burn out	from lightning									Fog bank high clouds, light winds	
8-12	5:33P	13.42	347	272	40.3			20711	#8		98760	Fog bank	
8-13	8:53A	13.37	349	272	40.1	5:33P		21826		9247	100207	Fog - no sun cold - no wind	
8-14	8:28A	13.41	348	270	40.4			23563		2282	102093	no wind	
8-15	8:30A	13.48	348	270	40.4			25326	#7	1900	103995	Fog bank - clear inland no wind	
8-16	8:25A	13.80	349	271	43.5			27095		1892	105287	Fog bank - clear inland winds	
8-17	8:33A	13.93	348	272	44.1			28876		1928	107815	high fog - clouds - light winds	
8-18	8:31A	13.95	348	272	44.8			30639	#6	1923	109738	clear sunny no wind nice	
8-19	8:39A	13.62	349	273	45.1			32415		1978	111666	no wind	
8-20	8:40A	13.58	350	273	47.2			34172		1865	113531	clear very windy cold	
8-28P	8:28P						8:28P	35029	#5				

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Year 2009

El Sur Ranch

Old Well

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Daily						Total x 1k		
5-20-09	7:09A	13.60	359	282	46.4	2:09P	59030	NP	1106	148973	clear windy cool		
5-21	8:50A	13.32	357	277	48.5		59905		1397	150049	over cast cool no wind		
5-22	7:50A	13.11	357	276	49.9		60989		1495	151446	"		
5-23	8:26A	13.24	357	275	49.8		62145		1479	152941	"		
5-24	8:46A	12.93	358	275	58.6		63286		1503	154420	"		
5-25	9:37A	13.00	360	278	58.5		64452		1200	155923	clear light wind cool		
5-26	8:55A	13.03	367	283	58.6		65508		1296	157223	low fog - light wind cool		
5-27	8:44A	12.99	378	291	53.1		66564	S.P	1364	158519	"		
5-28	9:01A	13.07	389	301	61.7		67683		1276	159883	"		
5-29	8:24A	13.20	419	325	32.7		69461		1279	161159	"		
5-30	8:00A	13.11	450	348	51.8		71231		1192	162438	"		
5-31	9:13A	13.04	451	350	58.1		73084		1053	162630	over cast cool light wind		
6-1	8:39A	13.20	455	352	51.2		74796		1106	164683	"		
6-2	8:57A	13.36	436	340	56.3		76579		1098	165789	partly cloudy cool no wind		
6-3	9:02A	13.38	427	332	55.2		78344		1126	166887	"		
6-4	8:56A	13.42	416	324	55.8		80099		1152	168013	"		
6-5	8:55A	13.49	416	325	59.4		81851		1751	169165	sunny warm no wind		
6-6	9:13A	13.51	423	328	55.6		83660	#1	1208	170416	"		
6-7	8:21A	13.64	460	360	50.8		85322		1179	171532	"		
6-8	8:23A	13.53	467	365	56.3		87080		1205	172737	clear cool windy		
6-9	8:23A	13.69	469	368	57.3		88850	#2	1207	173944	over cast cool light winds		
6-10	8:21A	13.66	474	372	56.7		90612		1124	175146	"		
6-11	8:42A	13.71	467	367	58.5		92411		1208	176370	"		
6-12	8:46A	13.78	446	352	60.3		94189		1143	177578	clear warm windy		
6-13	8:31A	13.77	440	351	60.1	7:31A	95857	#3	1179	178721	rain		
6-15	8:48A	13.81	371	295	60.9	8:48A	95857		1179	179890	high clouds - cool - no wind		
6-16	7:56A	13.84	382	302	61.0		97571		1226	181116	"		
6-17	8:32A	14.02	400	316	61.7		99378	4	1163	182279	high clouds - cool - fair bright		
6-18	8:04A	13.86	404	313	59.3		1108		1147	183426	high clouds - cool no wind		
6-19	7:27A	13.93	394	315	52.5		02835		1175	184601	clear cold very windy		
6-20	7:30A	13.82	402	313	56.7		04618		1209	185810	fog - misty - cold - light winds		
6-21	7:28A	13.90	455	359	57.2		06416	NP	1121	186931	cloudy cold very sunny		
6-22	8:58A	12.96	660	579	58.7		08260		947	187878	sunny warm clear calm		
6-23	8:40A	14.03	782	619	60.7		09920		971	188849	high clouds - becoming overcast - cold		
6-24	8:14A	14.05	981	776	58.2		11599		1001	1897850	low fog wet breezy - cold		
6-25	8:38A	14.09	1201	951	51.9	8:40A	13527		(189860	low fog - very hot calm		
6-26	4:41P	14.15	637	205	66.8	4:41P	15803		748	190598	low fog - drizzly - cold		
6-30	8:07A	14.23	832	661	66.1		16473						

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Year 2009

El Sur Ranch

Old Well

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Total x 1k								
7-1	8:11AM	14.17	785	622	64.4			17500	NP	856	191742	fog cold misty no winds	
7-1	4:47P						4:47P				192148	clear sunny hot no winds	
7-14	8:08A	14.56	366	293	70.1	8:08A		17875			192148	power converter installed for meter loss	
7-15	8:36A	14.51	421	337	63.1			192228			192148	ground level fog - cold	
7-16	8:26A	14.45	434	347	61.0			20985			193288		
7-17	7:37A	14.40	428	341	57.6			22704	SP		194355		
7-18	8:41A	14.42	431	344	60.7			24497			195404		
7-19	6:52A	14.40	438	350	57.6			26113			196510	warm inland	
7-20	9:01A	14.39	468	332	67.1			28018			197490	fog bank - warm inland	
7-21	8:20A	14.44	1052	840	51.6			1164			198654	clear inland - fog bank - mist	
7-29	8:50A	14.64	848	680	67.9	8:50A		1032			199686		
7-30	8:09A	14.62	1414	1182	62.1	8:50A		179686			200733	fog no sun light winds cold	
8-18	9:19A	15.23	1307	1059	60.7	Test on		1047			200733	ground fog - wet - cold - light winds	
9-8	3:04P	15.78	407	335	60.6			57185	SP		200741	fog bank - very windy - hot inland	
9-10	8:33A	15.50	439	360	61.8			57903			201495	cloudy - cold - no wind	
9-10	8:37A	15.48	464	369	62.1			58907			202541	ground fog - cold wet - nice inland	
9-11	4:39A	15.37	440	360	59.2			59900			203376		
9-12	9:59A	15.32	438	358	57.9			60965			204685		
9-13	8:01A	15.28	436	352	55.1			61931			205226	high clouds no fog - no wind	
9-14	11:30A	15.64	424	348	51.7			62953			206810	partly skies - windy	
9-15	8:36A	15.71	426	348	50.1			63871			20748	clear warm nice - windy	
9-16	8:25A	15.73	426	347	46.9			64880			208830	fog bank cold very windy	
9-17	8:21A	15.40	439	359	50.6			65897			209942	clear light winds - nice	
9-18	8:00A	15.32	444	362	52.7	8:00A		68922			21109		

Date	Time	Water Parameters					DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	Daily	Total x 1k								
5-28	9:01A	13.17	358	279	63.4	9:28	67683	PH	114	442	log fog - cool - no wind			
5-28	8:24A	13.61	365	285	48.5		69451		1919	118361	"			
5-30	8:00A	13.66	366	287	51.3		71231		1927	118288	"			
5-31	9:13A	13.72	365	287	52.9		73084		2085	120373	overcast cool light wind			
6-1	7:39A	13.81	367	288	54.6		74796		1970	122343	"			
6-2	8:57A	14.00	366	289	56.8		76579		2115	124458	partly cloudy, cool, no wind			
6-3	9:00A	14.05	367	291	60.7		78344		2097	126551	"			
6-4	8:53A	14.09	367	292	60.1		80099	#8	1964	128515	"			
6-5	8:55A	14.14	366	290	46.3		81851		1888	130403	sunny warm no wind			
6-6	9:17A	14.38	367	293	53.7		83660		1911	132314	"			
6-7	8:21A	14.22	367	292	55.8		85322	#7	1888	134097	"			
6-8	8:23A	14.30	365	291	49.3		87088		1834	135431	clear cool windy			
6-9	8:23A	14.27	366	291	54.6		88850		1823	137754	overcast cool light winds			
6-10	8:21A	14.14	367	291	46.6		90612		1864	139618	"			
6-11	8:42A	14.33	370	295	50.4		92411		1918	141536	"			
6-12	8:46A	14.90	367	296	53.2		94189		1868	143404	clear warm windy			
6-13	7:31A	14.61	365	297	56.0	7:31	95857		1766	145170	Rain			
6-15	8:48A	14.26	363	288	61.9	8:48	95887		—	145170	high clouds - cool - no wind			
6-16	7:56A	14.44	363	292	60.1		97571	#5	1788	146958	"			
6-17	8:32A	14.72	366	294	55.9		99378		1876	148834	high clouds - cool - no wind			
6-18	8:04A	14.61	365	292	52.7		01108	PH	1822	150656	high clouds - cool no wind			
6-19	7:27A	14.10	366	290	54.8		02835		1919	152575	low cool very windy			
6-20	7:30A	14.14	366	290	59.9		04618		2000	154575	fog with mist - cool			
6-21	8:28	14.23	366	291	61.5		06416		2081	156656	cloudy cool very windy			
6-22	8:58A	14.50	367	294			08260	#8	2106	158762	cloudy cool very windy			
6-23	8:40A	14.28	367	292	53.7		09920		1839	160601	sunny warm, calm			
6-24	8:10A	14.24	368	292	50.2		11599	#7	1840	162441	"			
6-26	8:38A	14.22	367	291	52.1		13327	"	1910	164351	high fog - blowing out of SW - cold			
6-26	7:48A	14.21	368	292	56.6		14043	#6	1854	164205	low fog - wet drizzle - cold			
6-27	8:36A	14.21	373	296	55.9		14802		1967	168172	partly cloudy - misty - cold			
6-28	8:39A	14.26	388	300	51.5		15523	#5	1818	169990	low fog - cold no wind			
6-29	7:06P						15523		1818	169990	very hot - clear - no wind			
6-30	9:49A	14.58	353	281	48.9	9:48	15803		170710	170710	clear better misty - cold			
7-1	8:38A	14.52	351	287	63.1	8:38	17875	PH	170710	170710	Hot - no wind clear			
7-2	8:26A	14.02	364	288	70.1		19228		883	171593	Ground level fog - cold			
7-3	7:39	14.03	362	287	68.7		20985		2157	173750	"			
7-19	8:40A	14.07	361	287	66.8		22704		2099	175848	"			
7-19	6:52A	14.02	360	286	67.2		24497		2130	177978	"			
							26113		1969	179847	Fog bank - much inland			

COPY

New Well

El Sur Ranch

Year 2009

Date	Time	Water Parameters				DO (%)	Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter [29847]		Remarks
		Temp (°C)	S-Cond	Cond	Total x 1k						Daily		
7-20	01:01A	14.58	367	294	51.4			28018	PH	2168	182015	Clear mild - fog bank - windy 7-20	
7-21	8:20A	14.55	366	292	54.2			29722		1983	183998	"	
7-22	8:53A	14.58	367	293	51.8			30510		2100	186198	"	
7-23	10:09A	15.25	385	314	56.6			31283	#5	1990	188188	clear cold very windy	
7-24	8:27A	14.44	388	310	47.5			31962		1732	189920	"	
7-25	7:34A	14.45	392	311	44.8			32675	6	1869	191779	Partly - fog - light winds cold	
7-26	6:41A	14.87	394	316	51.1			33442		2005	193782	low fog no wind - wet cold	
7-27	8:35A	14.51	393	314	50.5			34185	7	1923	195205	Partly fog - light winds hot in	
7-28	8:09A	14.49	394	315	46.7			34903		1844	197549	skny inland - fog bank - wind	
7-29	8:81A	14.70	393	316	46.6			35653	8	1930	199478	fog - no sun - cold - light winds	
7-30	8:09	14.61	386	309	56.9			37356		18907	201386	ground fog - wet - cold no wind	
7-31	7:39A	14.59	385	310	58.1			38110	PH	2117	203503	"	
8-1	9:32A	14.60	386	310	66.3			38785	N.P.	1520	205023	"	
8-2	8:19A	14.76	382	307	47.0			39358	4	1164	206187	Fog bank - warm sunny inland windy	
8-3	8:13A	14.75	381	306	44.7			39981		1307	207489	clear warm no wind	
8-4	8:32A	14.67	377	303	45.4			40595	3	1234	208723	Fog bank - clear inland - windy	
8-5	7:51A	14.64	376	303	44.1			41195		1234	209467	"	
8-6	8:37A	14.94	377	305	49.8			41848	2	1410	211367	cloudy - Trace of Rain - no wind	
8-7	8:24A	14.87	377	304	51.1			42490		1388	212765	clear - warm inland - very windy	
8-8	8:48A	14.84	378	305	52.9			43125		1326	214081	clear - cool - light winds	
8-9	8:40A	14.88	377	305	52.1			43740		1269	215350	clear hot inland - ground fog cold wet	
8-10	8:54A	14.84	374	301	51.7			44361		1278	216628	clear windy	
8-11	8:36A	14.82	373	301	49.6			44966	1	1234	217862	low fog - cold wet - no sun	
8-12	8:52A	14.83	375	303	44.2			45595		1319	219181	Fog bank - cold - light winds	
8-13	01:540							45605		16	219197	"	
8-14	10:32A	15.12	366	297	41.4		4:54p	45605	PH		219197	PGE meter reading low fog - wet - cold	
8-15	8:19A	15.08	367	299	40.6		10:32A	46292		1861	22058	low fog wet - cold - no wind	
8-16	8:16A	15.02	368	300	42.7			47035		1980	223038	"	
8-17	8:31A	14.82	373	301	46.1			47803		2073	225111	low fog - sunny inland - cool	
8-18	7:51A	14.80	373	302	49.4			48533		2007	227113	"	
8-19	8:38A	14.81	378	307	42.6		5:07p	48536		863	227976	clear very windy - cold	
8-20	8:09A	14.89	377	306	44.8		11:33A	49518	6*	1942	229918	clear - cloudy - nice	
8-21	8:09A	15.19	371	301	52.7		4:31p	49771		713	230651	"	
8-22	8:09A	15.23	370	300	55.3		3:23p	50386		1767	232398	"	
8-23	8:09A	15.10	374	304	44.9			5085		1835	234253	"	
8-24	8:09A	15.14	375	306	47.1			51783		1830	236063	"	
8-25	8:09A	15.21	374	304	41.8			52533		1961	238024	clear inland - fog bank windy	
8-26	8:09A	14.97	374	303	46.3			53293	#5	1971	239995	"	

New Well

El Sur Ranch

Year 2009

Date	Time	Water Parameters					Time on	Time off	Total kw hr Meter # 7	Field #	Flow meter		Weather
		Temp (°C)	S-Cond	Cond	DO (%)	Daily					Total x 1k		
9-1	6:15 A	14.94	375	304	48.1			53986	5	1670	241765	fog bank windy - nice in land	
9-2	6:35 A	14.91	376	305	44.8			54655	4	1694	243463	patchy clouds - no wind	
9-3	7:38 A	15.10	376	305	47.2			55470	8	2099	245562	clear warm no wind	
9-4	8:36 A	15.12	377	306	51.6			56178		1843	247405	clear - very windy fog bank	
9-5	7:40 A	15.17	376	304	43.9			56882	7	1832	249227	ground fog - cold wet - sunny in land	

P.O. Box 1588
Monterey, CA 93942

El Sur Ranch 831-624-2719

To: Niel Allen	Fax: 970-224-1885
From: Jim G	Date: 4-8-11
Re: 2010 Well Records	Pages:
cc:	
<input type="checkbox"/> Urgent <input type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply <input type="checkbox"/> Please Recycle	

Niel,

The originals are in at P.B. Office. These are the best I had.

Jim G

New
ESR WAF

El Sur Ranch

Year 2010

Date	Time	Temp (C)	Water Parameters			DO (%)	Time on	Time off	Total flow hr	Meter # 7	Field #	Flow meter		Weather
			Flow	Cond	Good							Daily	Total x 1k	
4-15	1:00	13.12	331	256	63.2	4:10		08628	PH	1575	246999	Very windy - cold - fog bank		
4-15	8:04	13.08	328	252	54.8			08628		1542	25148	light winds - cold		
4-15	7:52	13.15	327	253	50.6			11628		1530	253180	clear - good view		
4-15	8:10	13.13	326	252	52.7			13430		1400	255719	Fog - cold windy - no sun		
4-15	7:54	13.16	325	252	55.6			15158		1408	257654	Fog bank - very windy		
4-15	7:53	13.27	329	252	42.8			17055		1421	259911	clear - very windy		
4-15	8:01	13.36	329	256	51.1			19753		1468	261809	low fog - drizzle - cold		
4-15	8:02	13.01	330	256	52.6			20589		1478	263978	clear - fog		
4-15	8:02	13.01	335	255	85.8			22383	5	1344	265985	clear - fog		
4-15	8:02	13.01	329	255	76.7			24165		1214	267860	high clouds - cold - no winds		
4-15	8:02	13.01	328	256	46.2			25917		1290	269694	clear - fog		
4-15	8:02	13.01	328	256	47.1			27641	6	1322	271581	low fog - drizzle - cold		
4-15	7:50	13.40	328	255	48.8			29373		1332	273507	clear - fog		
4-15	8:07	13.30	329	256	46.2			3105	7	1325	275433	clear - fog		
4-15	8:07	13.30	325	255	43.7			32797		1328	277312	clear - fog		
4-15	8:07	13.30	325	255	42.8			34546		1302	279223	clear - very windy		
4-15	8:07	13.30	325	255	42.8			36260	9	1320	281097	clear - fog		
4-15	8:07	13.30	325	255	42.8			37967		1320	282961	clear - fog		
4-15	8:07	13.30	327	257	48.8		4:41	39682		1328	284952	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			56975	PH	1213	286573	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			58530		1351	289369	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			60216		1376	291255	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			61902		1388	293166	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			63588		1466	295356	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			65274		1465	297570	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			66960		1451	299661	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			68646		1318	301627	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			70332	8	1280	303446	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			72018		1285	305313	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			73704		1280	307137	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			75390		1321	309045	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			77076	6	1319	310928	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			78762		1302	312808	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			80448	5	1308	314706	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			82134		1257	316603	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			83820		1301	318501	clear - fog - light wind - fog bank		
4-15	8:07	13.30	326	257	71.2			85506		1301	320205	clear - fog - light wind - fog bank		

Null
Dist Water

El Sur Ranch

Year 2012

Date	Time	Temp (C)	Water Parameters			DO (%)	Time on	Time off	Total flow ft ³	Field #	Flow meter		Weather
			S-Cond	Cond	DO (%)						Daily	Total x 1k	
4-22	11:30	15.51	336	255	60.1	10:30		04401	PH	648	32020	Clear very windy	
4-23	7:56	13.53	337	263	59.8			06054		196	322149	Clear - sunny	
4-24	9:03	14.23	336	256	62.3			07240		1426	324532	Clear warm hot	
4-25	8:20	13.63	336	263	58.9			09683		145	326396	" "	
4-26	9:11	13.41	336	260	56.8			1156		1972	328298	" "	
4-27	8:00	13.91	337	259	72.3			13231		1412	330333	" "	
4-28	8:00	14.69	338	272	60.7			15011		1325	332097	low fog - cold - no wind	
4-29	8:15	11.13	339	269	56.6			1538		1538	334281	" "	
4-30	8:00							1585		1585	334936	Photo Project	

Old Meter

El Sur Ranch

Brand New Meter 6-7-10

Year 2010

Date	Time	USG M ³		Water Parameters	Meters	DO (%)	Time on	Time off	Total kW hr	Meter # 7	Field #	Flow Meter		Weather
		Temp (C)	US-Gal									Conduct	Daily	
7-10	12:52	13.75	363	289	34.0	12.52			00022	NP	428	21127		Fog banks - very wind - falling
7-9	1:56	13.56	387	264	29.7				02862		830	212074		
7-8	1:36	13.61	323	253	35.2				01902		835	213260		
7-7	2:48	13.48	320	250	42.2				03010		850	214525		
7-6	2:21	13.23	318	247	48.8				04006		852	215671		
7-5	2:15	13.38	316	246	41.9				05103		848	216933		Warm - light wind - hot inland
7-4	2:38	13.40	316	244	40.8				06134		844	218119		
7-3	2:31	13.34	316	244	46.6				07240		849	219389		Fog - windy - cold
7-2	2:32	13.32	316	246	45.8				08317	5P	848	220577		Windy - cold fog
7-1	2:09	13.30	320	248	49.6				09828		810	221760		Light winds - fog bank
7-0	2:28	13.26	306	255	15.1				11628		818	222916		Clear wind - nice
6-30	2:10	13.13	326	252	59.8				13430		814	224089		Fog cold wind - no fog
6-29	2:10	13.10	327	253	61.2				14645		813	225222		Fog bank very windy
6-28	2:41	13.57	329	236	50.2				17255		811	226460		Clear very windy
6-27	2:26	13.26	327	253	51.5				18753		811	227562		low fog - directly - cold
6-26	2:01	13.25	329	255	55.6				20589		817	228765		
6-25	2:02	13.31	329	255	58.2				22893		820	229761		
6-24	2:37	13.34	328	255	59.4				24165	H	842	231217		High clouds cold - no wind
6-23	2:52	13.40	328	255	60.8				25917		840	232381		
6-22	2:52	13.53	328	255	61.1				27641		817	233425		low fog - windy - cold wet
6-21	2:40	13.55	325	256	63.6				29373		820	234457		
6-20	2:07	13.54	331	259	58.6				31105	3	813	235494		
6-19	2:42	13.59	330	258	58.8				32797		816	236505		
6-18	2:06	13.57	330	260	58.6				34546		826	237557		Clear - very windy
6-17	2:06	13.59	331	259	57.5				36260	2	821	238604		
6-16	2:06	13.59	333	259	55.8				37967		830	239637		
6-15	2:31	13.48	333	259	59.2		4:41		39682		826	240627		Clear - sunny inland - fog bank
6-14	2:04	13.02	314	248	67.5				40336		830	241072		low fog - cold - light wind
6-13	2:31	13.47	319	252	68.1				41307	1	850	242117		
6-12	2:58	13.96	320	252	66.6				42304		812	243193		
6-11	2:51	14.03	323	255	62.8				43314		860	244271		
6-10	2:13	14.08	324	256	60.6				44319		853	245371		
6-9	2:48	13.98	322	256	66.1				45384	NP	857	246522		
6-8	2:44	14.12	322	255	56.9				46302		842	247412		
6-7	2:23	14.00	323	255	57.7				47328		816	248574		
6-6	2:39	14.19	323	256	54.7				48379		812	249760		
6-5	2:31	14.21	323	256	54.3				49414		816	250932		
6-4	2:33	14.25	325	256	55.6				50501		828	252171		Partly cloudy - hot inland

CHINA

El Sur Ranch

Year 2010

Date	Time	Temp (°C)	Water Parameters			Time on	Time off	Total kWh	Field #	Daily	Flow meter		Weather
			B-Cond	Cond	DO (%)						Total x 1k		
1-18	7:31	14.19	723	256	50.2		51501	122	830	253309		low fog - cold drizzle, no wind	
1-19	8:36	14.25	724	258	53.0		52592		824	251550		low fog - cold drizzle, no wind	
1-20	7:57	14.31	726	259	52.6		53607		831	255200		low fog - cold drizzle, no wind	
1-21	7:46	14.14	725	256	51.8		54643		830	256886		low fog - cold drizzle, no wind	
1-22	7:26	14.16	723	256	53.8		55690		834	258083		low fog - cold drizzle, no wind	
1-23	7:23	14.23	719	252	53.8		56691	5P	820	258083		low fog - cold drizzle, no wind	
1-24	7:55	14.14	729	265	53.8		57609		833	259127		low fog - cold drizzle, no wind	
1-25	7:53	14.92	728	269	49.4		58625		828	259422		low fog - cold drizzle, no wind	
1-26	7:53	14.82	726	262	49.4		59630		847	259422		low fog - cold drizzle, no wind	
1-27	7:53	14.82	726	262	49.4		60630		848	260441		low fog - cold drizzle, no wind	
1-28	7:53	14.64	732	268	52.0		61630		849	261471		low fog - cold drizzle, no wind	
1-29	7:53	14.60	733	267	51.3		62630		855	262519		low fog - cold drizzle, no wind	
1-30	7:53	14.48	732	258	58.0		63630		861	263636		low fog - cold drizzle, no wind	
1-31	7:53	14.34	731	264	55.2		64630		856	264699		low fog - cold drizzle, no wind	
2-1	7:53	14.45	733	266	56.2		65630		853	265844		low fog - cold drizzle, no wind	
2-2	7:53	14.45	732	272	60.1		66630		853	266922		low fog - cold drizzle, no wind	
2-3	7:53	14.40	730	279	53.2		67630		872	267922		low fog - cold drizzle, no wind	
2-4	7:53	14.30	735	285	58.1		68630		872	268922		low fog - cold drizzle, no wind	
2-5	7:53	14.35	740	290	60.2		69630		878	269249		low fog - cold drizzle, no wind	
2-6	7:53	14.06	750	300	60.2		70630		875	270272		low fog - cold drizzle, no wind	
2-7	7:53	14.22	748	277	59.8		71630		808	271282		low fog - cold drizzle, no wind	
2-8	7:53	14.06	745	272	60.0		72630		806	272315		low fog - cold drizzle, no wind	
2-9	7:53	14.04	743	271	59.1		73630		804	273326		low fog - cold drizzle, no wind	
2-10	7:53	14.25	742	272	58.2		74630		809	274342		low fog - cold drizzle, no wind	
2-11	7:53	14.19	743	272	54.7		75630		804	275371		low fog - cold drizzle, no wind	
2-12	7:53	14.22	739	267	60.4		76630		805	276432		low fog - cold drizzle, no wind	
2-13	7:53	14.04	739	268	60.9		77630		805	277487		low fog - cold drizzle, no wind	
2-14	7:53	14.20	734	265	61.7		78630		805	278580		low fog - cold drizzle, no wind	
2-15	7:53	14.37	732	265	61.9		79630		804	279380		low fog - cold drizzle, no wind	
2-16	7:53	14.47	731	265	64.5		80630		804	280395		low fog - cold drizzle, no wind	
2-17	7:53	14.58	732	265	63.8		81630		805	281430		low fog - cold drizzle, no wind	
2-18	7:53	14.58	732	265	63.8		82630		834	282566		low fog - cold drizzle, no wind	
2-19	7:53	14.64	732	262	62.9		83630		833	283769		low fog - cold drizzle, no wind	
2-20	7:53	14.70	733	263	61.7		84630		830	284974		low fog - cold drizzle, no wind	
2-21	7:53	14.56	734	262	61.7		85630		847	286200		low fog - cold drizzle, no wind	
2-22	7:53	14.28	733	263	65.9		86630		853	287402		low fog - cold drizzle, no wind	
2-23	7:53	14.34	732	264	57.4		87630		853	288639		low fog - cold drizzle, no wind	
2-24	7:53	14.32	732	264	57.6		88630		850	289851		low fog - cold drizzle, no wind	
2-25	7:53	14.42	731	264	54.9		89630		856	291071		low fog - cold drizzle, no wind	

OH Well

El Sur Ranch

Year 2010

Date	Time	Temp (C)	Water Parameters			Time on	Time off	Total Run Hr	Field #	Flow meter		Weather
			B-Cond	Cond	DO (%)					Daily	Total x tk	
4-2	7:55	14.50	331	265	60.5			00510	5P	822	398230	low fog - cold - no wind
4-3	7:47	15.48	330	264	61.6			01259		819	297455	low fog - cold - no wind
4-6	8:42	15.36	331	265	59.5			02432		821	294658	clear warm and
4-7	8:10	14.49	331	265	58.6			03455		841	295841	low fog - no wind
4-8	8:00	14.67	329	264	60.3	8:00		04497	1	838	296920	low fog - no wind
4-9	8:37	15.67	338	278	60.1	10:37		04451		821	296921	clear - sunny
4-10	8:36	15.05	340	275	57.7			06054		831	297998	clear - sunny
4-11	8:00	15.44	341	274	60.3			07940		834	299250	clear - sunny
4-12	8:26	14.97	338	274	56.2			09688	2	837	300416	clear - sunny
4-13	8:11	14.78	340	275	55.8			11456		835	301619	clear - sunny
4-14	8:20	14.58	337	270	58.0			13231		842	302789	low fog - cold - no wind
4-15	8:21	14.68	326	271	59.9			15611	3	827	303984	low fog - cold - no wind
4-16	8:33	14.71	338	271	58.8			16807		824	305125	clear - no wind
4-17	8:33	14.51	336	269	62.3			17850		835	306393	clear - no wind
4-18	8:50	14.62	335	269	65.2			18873	4	820	307551	clear - no wind
4-19	8:30	14.80	335	270	66.1			19938		822	308158	clear - no wind - cold
4-20	8:35	14.82	336	272	68.7			20983		820	309261	clear - no wind - cold
4-21	8:36	14.79	335	270	61.0			21964	NO	883	311012	cloudy - cold
4-22	8:50	14.49	335	268	63.5			22939		886	311993	clear - cold - no wind
4-23	8:53	14.60	334	268	64.7			23915		888	314980	clear - cold - windy
4-24	8:49	14.87	335	268	63.6			24889		884	315961	clear - cold - windy
4-25	8:51	14.77	335	270	61.8			25904		886	319921	clear - sunny
4-26	8:51	14.82	334	269	59.3			26881		882	315999	clear - sunny
4-27	8:46	14.82	334	268	62.2			27966		884	318029	fog bank - windy cold
4-28	8:10	14.60	335	267	60.6			28290		801	317892	clear - sunny
4-29	8:14	14.67	335	267	59.8			29754		802	318844	clear - sunny
4-30	8:15	14.74	335	270	57.5			30740		804	319524	heavy fog - cold - no wind